



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,

Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.O.D.I.D., P.G.D.I.D., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

Criteria 1

CURRICULAR ASPECTS

1.3 CURRICULUM ENRICHMENT




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

Criteria 1

CURRICULAR ASPECTS

1.3 CURRICULUM ENRICHMENT

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

Criteria 1 – CURRICULAR ASPECTS

Key Indicator – 1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

S. No.	Contents (Documents)
A)	Description
B)	List of B.Arch courses which Addresses crosscutting issues and syllabus details
C)	List of topics in the Architectural Design Project course in B. Arch Programme which addresses cross cutting issue
D)	List of topics in the Design Dissertation in B.Arch programme which addresses cross cutting issues
E)	List of Seminars, Workshops and Value added Courses which addresses cross cutting issues
F)	List of B.VOC-ID courses which Addresses crosscutting issues and syllabus details
G)	List of topics in the Design Dissertation in B.VOC-ID programme which addresses cross cutting issues




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

1.3.1

Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

A) Description




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

1.3.1. Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Bharati Vidyapeeth college of Architecture is imparting the core values of trust and welfare to all its stakeholders. Issues of gender equity, environmental awareness and sustainable practices, human values and professional ethics are immaculately observed and practiced by the institute on a continuous basis without discrimination or any other reservations.

GENDER EQUITY

BVCOA is a co-education institute where genders are equally treated and educated. All the programs are designed considering gender equity in the profession. All the students are encouraged to work in teams during the design projects, study tours and group works in all the subjects.

- Academic activities and projects are also planned with no gender bias to encourage their inherent potential.
- Special care is always taken to address specific needs of girl students during all the activities. Institute plans year-round activities for gender sensitization by organizing guest lectures on subjects like women's health and hygiene by professional speakers.

ENVIRONMENT AND SUSTAINABILITY

In all the academic activities environmental awareness and sustainable practices are of utmost importance. The courses are given special attention with effective mentoring, professional guidance by the teachers and design experts with respect to Environment and sustainability.

- The Institute has conducted numerous activities such as Bamboo workshop, tree plantation as a part of green initiative and Ganesh idol making in Shadu clay to promote eco-friendly Ganesh festival.
- The 3 R (Reduced, Recycle and Reuse) are followed through many initiatives in the campus such as paper recycling, compost pit and Automatic Sanitary Napkin Incinerator Machine. In further use, every year as a part of the Annual Exhibition the students use waste material and create sculptures.
- The Institute encourages the students to use alternative energy sources in the design process, and is given significant coverage.

HUMAN VALUES

Human values are imbibed in the students from the very top of the organization. The Bharati Vidyapeeth and all its members are actively involved in the social and welfare activities on a much larger scale and have won many recognitions, accolades and awards over the past few decades.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

- We involve our students in the projects related to Public issues, Women welfare centers, Student hostels, Primary Schools and Hospitals.
- We also incorporate universal accessibility in the design preambles so that the issues of disability are accommodated, and awareness is created among students.

PROFESSIONAL ETHICS

Professional ethics is an important subject in the architecture curriculum. At our institute a lot of focus and stress is given towards the promotion of a professional ethical culture. The institute follows all the norms prescribed by the council of architecture's code of conduct for practicing architects.

- The First year Program includes the course "Communication skills & Presentation Skills" that improves professional and communication skills.
- Industrial visits and participation of students in professional activities also add to their knowledge about professional ethics.
- The Institute invites guest speakers Architects from profession every year to upgrade and update about the current practices and knowledge about professional ethics.
- All the programs include Practical Training where the students understand professional ethics.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

1.3.1

**Institution integrates cross- cutting issues relevant to
Gender, Environment and Sustainability, Human Values
and Professional Ethics into the Curriculum**

**B) List of B.arch Courses which addresses crosscutting
issues and Syllabus details**




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID., P.G.DID., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

1.3.1. B) List of B.arch courses which addresses crosscutting issues and syllabus details

SYLLABUS DETAILS FOR ACADEMIC YEAR 2018 - 2023				
Class	Course Code	Course Name	Issues Addressed	Detail Description (Enrichment achieved by)
1ST YEAR - SEM I	101	Architectural Design Studio	Professional ethics, Human Value	Anthropometry study for understanding the human body in space. Activities and their relationship with spaces. Developing a language vocabulary, visualization. Exposure to architecture. Exposure to architects and their works.
	102	Allied Design Studio	Professional ethics, Human Value	The course content developed by the individual colleges as per their choice of Allied Design scheme. The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces
	105	Humanities	Human Values	World history systems of knowledge. History of culture, understanding human cultural development , products and sociology. Chronology India and the world
	106	Environmental Studies	Environment and Sustainability	Understand the relationship between Natural environment and Built environment. Understanding Natural resources, Forest resources, Water resources, Mineral resources, Food resources, Energy resources, Land resources
1ST YEAR - SEM II	201	Architectural Design Studio	Professional ethics, Human Value	Architectural Design on Weekend Home. Architecture as an environment. Architecture in context. Design exercises – Designing of space for small groups and minor activities with reference to climate, site conditions, and user requirements.
	202	Allied Design Studio	Professional ethics, Human Value	The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces
	205	Humanities	Human Values	To study the history of art, culture and




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder:
Dr. Patangrao Kadam
 M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

				aesthetics society , context, architecture prehistory, paleolithic and neolithic culture, river valley civilizations classical greece and rome vedic culture, king in India, Hellenistic influences Buddhism and jainism
	206	Environmental Studies	Environment and Sustainability	To study the effects of architectural development on natural resources .
2ND YEAR - SEM III	301	Architectural Design Studio	Professional ethics, Human Value	Understanding space requirements for various activities for small groups of people . Understanding indoor and outdoor spaces created by built forms. Design of spaces suitable for the intended activity . Design of spaces as per the behavioral needs of individuals and groups. Design and detailing of built form and required infrastructure with reference to methods of construction, and materials..
	302	Allied Design Studio	Professional ethics, Human Value	The course content will be developed by the individual colleges as per their choice of Allied Design scheme. Frequently, the institute has developed an interior design project focused on the residential .
	305	Humanities	Human Values	The study of the socio-cultural circumstances , the art and the architecture of the decline of the Roman Empire and The beginnings of Christianity and the formation of the Holy Roman Empire
	306	Environmental Studies	Environment and Sustainability	To study and understand passive methods of environmental control . Climatology and Building Sciences and Passive Methods of control
	308	Architectural Building Services	Professional Ethics	Understanding basic services required for a building and interior spaces Sanitation : Sanitary appliances and user space requirement, Various types of traps used with appliances, Design of toilets, Drainage and water supply connections to various appliances, Systems of




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth

COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

				building drainage, Water supply, Direct and indirect water supply for buildings, Connection from Municipal water main- Ferrule, water meter, Design of water storage tanks, and down take pipes, Taps and valves used with various appliances
	309	Architectural theory	Professional Ethics, Human Values	To understand and comprehend ideas in architecture through writings in architecture . To become familiar with and improve comprehension about architecture using theoretical texts and architectural criticism.
2ND YEAR - SEM IV	401	Architectural Design Studio	Professional ethics, Human Value	To develop research skills for survey research and case study. To understand functioning of community spaces in rural areas/semi urban areas To study principles of design, construction, and technology based on tradition and experience
	402	Allied Design Studio	Professional ethics, Human Value	The Course content can be developed by the individual institute as per their choice of allied design scheme. Frequently, the institute has developed an interior design project focused on the commercial .
	405	Humanities	Human Values	The study of the socio-cultural circumstances, the art and the architecture of the followings: The rise of the Mahajanapada, The Mauryas and the Guptas, The resurgence of Hinduism, The rise of Islam, The establishment of the Sultanates, The Mughals, The urban architecture of Bombay in the early 20th century
	408	Architectural Building Services	Professional Ethics, Environment and Sustainability	Understanding of external services of water supply and drainage for the buildings , and site layouts.




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
 Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

	409	Architectural theory	Professional Ethics	To be able to write with clarity about architecture and ideas in architecture. To be able to correctly use architectural terms to communicate architectural ideas . To be able to convey effectively in words the thinking behind one's own designs being carried out in various studios.
3RD YEAR - SEM V	501	Architectural Design Studio	Professional ethics, Human Value	Architectural Design on Interpretation center . To understand the potential of urban land and optimization of spaces. To understand architectural forms, and corresponding functions for different types of buildings. Development of appropriate architectural forms, their grouping and composition . Provision of spaces required for various activities. Provision of spaces for required infrastructure and services
	502	Allied Design Studio	Environment and Sustainability, Human Value	The Course content can be developed by the individual institute as per their choice of allied design scheme. Frequently, the institute has developed a landscape design . In which the students get knowledge about the fundamentals of landscape .
	505	Humanities	Human Values	To understand the trends of art, architecture and its influence in India . Modern movements in art and architecture, Architectural evolution influenced by developments in technology and structural system
	508	Architectural Building Services	Environment and Sustainability	To understand the working of Electricity, Lighting, Acoustics standards .
	509	Architectural theory	Human Values	To understand the fundamentals of theoretical architectural research , its objectives and its essential methodologies. To be able to build up from documentation and data collection to critical analysis and evaluation. To develop an attitude of Critical Thinking and its essential dimensions.




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
 Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

3RD YEAR - SEM VI	601	Architectural Design Studio	Professional ethics, Human Value	Architectural Design in Maritime or fine arts institute . To understand the nature of Urban institutions. Architecture for enhancement of institutional character. Design development and detailing for integration of infrastructure and building systems.
	602	Allied Design Studio	Professional ethics, Human Value	This subject orientates students to understand the design development methods based on in depth pre study on multiple layers. Also they will be acquainted with the skills to apply the design principles learnt in the previous semester.
	604	Theory & Design of Structures	Professional Ethics	Study of RCC material and its properties, design philosophy , introduction to limit state design method, analysis and design of slab, beam, column, footing and staircase.
	605	Humanities	Human Values	Understanding architecture with reference to social issues related to urbanization .
	608	Architectural Building Services	Environment and Sustainability	Fire protection for buildings Services for high rise Buildings
4TH YEAR - SEM VII	701	Architectural Design Studio	Professional ethics, Human Value	Architectural Design on housing projects. to understand the typologies of housing in Urban Areas. Understanding quantitative and qualitative aspects of mass housing. Under-standing user aspirations and user affordability. Expected Course out-come design of housing schemes in urban areas, along with necessary infrastructure, services, and amenities.
	708	Architectural Building Services	Environment and Sustainability	Heating, Ventilation, and Air conditioning
	710	Professional Practice	Professional ethics	Introduction to Architectural profession, Office, Office set up and administration , Tenders, Contracts.




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
 Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

4TH YEAR - SEM VIII	811	Professional Training	Professional ethics	During this term the students have to undergo training out-side the institute , in such offices / organizations as will give him/her the necessary opportunity to improve and consolidate his/her Architectural Knowledge. During the practical training the student is expected to work in accordance with the discipline of the organization, and will have to make progress which will be carefully watched by the institution. The student will have to submit a detailed report of the experience gained during the professional training. Logbooks will have to be maintained by the students and counter signed by the principal of the firm , and also by the teacher in charge .
5TH YEAR - SEM IX	901	Architectural Design Studio	Professional ethics, Human Value	Design of complex/ multifunctional buildings and surrounding spaces, for example, Hotel, Sports Center/ stadium, Museum, etc. Application of technical knowledge to design detailing. Understanding impact of socio-economic factors on user requirements. Study of climatic conditions, Site analysis, site planning.
	902	Allied Design Studio	Professional Ethics	The course content will be developed by the individual colleges as per their choice of Allied Design scheme. Suggested Themes: Town planning, Urban Design, Housing, Environmental design
	906	Environmental Studies	Environment and Sustainability	To study and understand sustainable building design processes: Concepts of Sustainable Building , Studying the Nation Building Code (NBC 2005) code with respect to the Chapter 11 on Sustainability, Energy Efficiency, Water Efficiency, Material Efficiency, Solid waste management




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
 Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7. C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID., P.G.DID., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

	908	Architectural Building Services	Environment and Sustainability	Specialized Services required for specific functions/ building types (for example hospitals, hotels, auditorium) Specialized services as per climatic conditions, Building management systems.
	910	Professional Practice	Professional Ethics	To understand the purpose and implication of its application, instructions to the students should be general without going too much in detail in legal aspects, Acquisition and valuation
	911	Design Dissertation	Professional ethics, Gender, Human values, Environment and sustainability	Students are required to choose a topic and conduct research under the guidance of internal teachers. The report should include Title and description of the topic Justification for Architectural intervention in context., Background study, Review of related literature, Analysis of terms, Methodology of study (Survey, Case studies, project reviews), Findings and analysis based on the methodology
5TH YEAR - SEM X	1006	Environmental Studies	Environment and sustainability	To Evaluate and apply sustainable building strategies over design. Post Occupancy evaluation of case studies, Impacts of Built Environment on its surroundings ,Integration with Design Dissertation, , Sustainability at Urban level.
	1007	Architectural Representation & Detailing	Environment and sustainability, Professional Ethics	Active and passive systems related to building sciences and environment protection.
	1009	Advanced Theory	Human values	To make students aware of the current discourses in architecture through a direct interaction with architectural thinking and ideas.
	1010	Professional Practice	Professional ethics	Professional and Legal responsibilities of Architects. Arbitration, Conciliation, Mediation. Duties and liabilities in Profession.




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

				Legal responsibilities of Architect to Employer. Govt. Bodies and Local bodies. Expressed and Implied authority of Architect Architects relationship with Client and contractor Consumer protection Act.1986
	1011	Design Dissertation	Professional ethics, Gender, Human values, Environment and sustainability	To evaluate and apply sustainable building strategies over design. Post occupancy evaluation of case studies of student's thesis work, Urban sustainability, Impacts of the built environment on its surroundings.

Year	Code	Subject	Issues Addressed	Detail Description (Enrichment achieved by)			
1st Year	120	College projects	The topic for the college project is developed separately for each semester. It can be addressed with any of the integration issues.	As per University of Mumbai Syllabus the college project is a choice based subject which can be developed by an individual institute.			
	220						
2nd Year	320						
	420						
3rd Year	520						
	620						
1st Year	121				Elective	The topic for the electives is developed separately for each semester. It can be addressed with any of the integration issues.	As per University of Mumbai Syllabus the elective is a choice based subject which can be developed by an individual institute.
	221						
2nd Year	321						
	421						
3rd Year	521						
	621						
4th Year	720						
	721						
5th Year	921						
	1021						




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

AC 6/6/2012
Item No. 4.78

UNIVERSITY OF MUMBAI



Syllabus for the Bachelor of Architecture

Programme : B.Arch.

**Course : Bachelor of Architecture
(Semester I & II)**

(As per Credit Based Semester and Grading System with
effect from the academic year 2012–2013)



Principal
Bharati Vidyapeeth
College of Architecture
Sambada Complex, Opp. Kharghar
Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for First Year B. Arch. course Semester I

101 Achitectural Design Studio 1

Credits-4

Teaching Hours

Lectures- -----

Studio- 72 periods of 50 minutes duration -60 hours

Sessional marks-

Internal- 150

External -----

Understanding the human body in space

Activities and their relation ship with spaces

Scales and proportions

Developing a language vocabulary, visualization

Exposure to architecture,

Exposure to architects and their works

Buildings, practices, site visits, meeting architects

Sessional work based on the basis of above.

102 Allied Design Studio 1

Credits-4

Teaching Hours

Lectures

Studio- 72periods of 50 minutes duration - 60hours

Sessional marks-

Internal- 150

External -----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.

The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces

Visual Field & Practices (given as an example)

Visual practices visual compositions using real world materials

Similarity & self-similarity understanding diversity

Natural & artificial forms/colors/textures; inherent/applied



A handwritten signature in blue ink, appearing to be 'U. D.' or similar, written over a faint grid background.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

103 Architectural Building Construction & Materials 1

Credits-5

Teaching Hours-

Lectures-36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

Scheme of examination

Theory one paper of three hours duration Max. marks- 70 Min marks for passing- 28

Sessional marks-

Internal- 80 marks

External ----

Building Construction

Elements of buildings -Substructure/ Superstructure

Understanding role of building elements

Understanding construction built form & building practice

Paradigms: load bearing structures, frame structures

Study of Simple buildings from foundation to roof

Building construction drawing practices and conventions

Building details models

Building Materials

Contextual relevance- what are buildings made of

Natural and artificial materials- where they are used

Materials shall be studied by understanding their PROPERTIES viz. Density & Specific gravity, Strength, Thermal properties etc.

The study shall strongly emphasize the 'Selection Criteria' comprising various aspects viz. Technology, Aesthetic, Socio-Cultural, Socio-Economic, Ecology (green materials), etc.

104 Theory & Design of Structures 1

Credits- 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration- 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

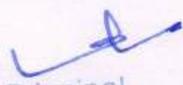
Internal- 50

External ----

Introduction to the subject and theory of structure:

- Aims, objectives and scope of study of theory of structure for architects.
- Technical names and function of various structural components from foundation to roof.
- Fundamentals and mechanics.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- d. S.I. system and units.
- e. Understanding structure why things don't fall down

Structural systems- ways to create inner space
Under standing loads of various types

understanding the forces and Moments –

Definition, cause, effect, units
Types of forces,
Conditions of equilibrium
Beam reactions

105 Humanities 1

Credits- 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45 hours
Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 External ----

World history systems of knowledge

History of culture understanding human cultural development, products and sociology

Chronology India and the world

106 Environmental Studies 1

Credits- 2

Teaching Hours-

Lectures- 36 periods of 50 minutes duration

Studio- -----

Sessional marks-

Internal- 50

External -----

OBJECTIVE

Understand the relationship between Natural environment and Built environment

Understanding Natural resources

Forest resources, Water resources, Mineral resources, Food resources, Energy resources,
Land resources

CONCEPTS

Natural Environment, Ecology and ecosystems, Bio diversity and co existence

Relationship and co-existence of Built & Natural Environments

Building Types & Lifestyles in different geographic zones and climatic zones



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

107 Architectural Representation & Detailing 1
Credits-6

Teaching Hours

Lectures-----

Studio- 108 periods of 50 minutes duration – 90 hours

Sessional marks-

Internal- 150

External ----

Graphics

Studio work culture pencils, instruments, table, etc.

Plane geometry & solid geometry orthography

Drawing a building understanding thicknesses and hollows; plans, sections, elevations

Freehand

Memory left brain creativity

Objects taking things apart/ reassembly

Workshop

Building skills studio work culture; instruments, tabletop; cutting, joining, shaping

Materials and media installations assembly

120 College Projects 1

Credits- 6

Teaching Hours-

108 periods of 50 minutes duration - 90hours

Sessional marks-

Internal- 150

External -----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects:

Seminars, Tutorials/ additional classes for any course, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

121 Elective 1

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 50

External -----

(to be developed by individual colleges)




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for First Year B. Arch. course Semester II

201 Architectural Design Studio 2

Credits-4

Teaching Hours

Lectures- -----

Studio- 72 periods of 50 minutes duration -60 hours

Sessional marks-

Internal- 150

External -----

Object & context

Architecture as environment

Architecture in context

Architectural insertions, Documentation, site visits, documentation through text, photography, drawings, computers

Design exercises – Designing of space for small groups and minor activities with reference to climate, site conditions, and user requirements.

202 Allied Design Studio 2

Credits-3

Teaching Hours

Lectures

Studio- 72 periods of 50 minutes duration - 60 hours

Sessional marks-

Internal- 150 marks

External -----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.

The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces

Visual Field & Practices (given as an example)

Aesthetics as a product of context/ media

Mixing media/ hybridity

Visual culture icon, index, symbol

Installations exercises



A handwritten signature in blue ink, likely belonging to the Principal of the college.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

203 Architectural Building Construction & Materials 2

Credits- 5

Teaching Hours-

Lectures-36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

Scheme of examination

Theory one paper of three hours duration Max. marks- 70 Min marks for passing- 28

Sessional marks-

Internal- 80 marks

External ----

Building Construction

walling systems ,external envelopes, internal partitions in various materials, cavity walls openings/fenestrations

structural considerations; structural spans; lintel, beam, arch

fenestrations: opaque, translucent, transparent

Building Materials

Material Syntax

synchronic and paradigmatic choices

Understanding Specifications & Quantities

The outcome of this course is the ability to SPECIFY building materials as per the demands of Design Program.

204 Theory & Design of structures 2

Credits- 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration- 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

Understanding various concepts about structures as tall, long, thin, wide etc.

Understanding Articulation of structural systems from foundation to roof

Understanding the following:

- 1) Properties of section
- 2) Stress and strain:
- 3) Shear force and bending moment
- 4) Theory of simple Bending




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

205 Humanities 2

Credits- 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

History of art culture & aesthetics

Society, Context, Aesthetics, Architecture

Prehistory, Paleolithic and Neolithic Cultures,

River Valley Civilizations

Classical Greece and Rome

Vedic Culture, Kingship in India, Hellenistic influences

Buddhism and Jainism

206 Environmental Studies 2

Credits- 2

Teaching Hours

Lectures- 36 periods of 50 minutes duration – 30 hours

Studio- -----

Sessional marks-

Internal- 50 marks

External ---

OBJECTIVE

Study the effect of architectural development on natural resources

Effects of architectural development on natural resources

Concepts of sustainable development

Renewable resources

Water cycle and its management

Conservation and generation of energy

207 Architectural Representation & Detailing 2

Credits- 6

Teaching Hours

Lectures-----

Studio- 108 periods of 50 minutes duration – 90 hours

Sessional marks-

Internal- 150

External ----

Graphics

Views isometric, axonometric

Perspective & sciography exercises (may be done on sketch



A handwritten signature in blue ink, appearing to be 'U. D.' or similar, written over the stamp area.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Railway Station, C.B.D, Navi Mumbai

Freehand

Landscape outdoor sketching

Anatomy

Workshop

Visual practices exercises

Architectural design exercises- making models

Theory of structures and construction – making of models

220 College Projects 2**Credits- 6****Teaching Hours-**

108 periods of 50 minutes duration - 90hours

Sessional marks-

Internal- 150

External -----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects

Seminars, Tutorials/ additional classes for any course, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

221 Elective 2**Credits- 3****Teaching Hours**

Lectures

Studio- 54 periods of 50 minutes duration -45 hours

Sessional marks-

Internal- 50

External -----

(to be developed by individual colleges)



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

UNIVERSITY OF MUMBAI



Syllabus for the Bachelor of Architecture

Programme : B.Arch.

**Bachelor of Architecture
(Semester III & IV)**

AC 27-2-13 Item 4

(As per Credit Based Semester and Grading System with
effect from the academic year 2013–2014)



Principal
Bharati Vidyapeeth
College of Architecture
Nada Complex, Opp. Kharghar
Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for Second Year B. Arch. Semester III

301 Architectural Design Studio 3

Credits-6

Teaching Hours

Lectures-----

Studio- 108 periods of 50 minutes duration -90 hours

Sessional marks-

Internal- 100

External ---100

Objectives:

Understanding space requirements for various activities for small groups of people
Understanding indoor and out door spaces created by built forms.

Design Objectives

Design of spaces suitable for the intended activity

Design of spaces as per the behavioral needs of individuals and groups.

Design and detailing of built form and required infrastructure with reference to methods of construction, and materials

Design projects

Built and Un-built spaces for multiple activities for a small group of people

Built and Un built spaces for relatively larger groups.

302 Allied Design Studio 3

Credits-3

Teaching Hours

Lectures

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.



A handwritten signature in blue ink, appearing to be "U. D.", located above the principal's name.

Principal
Bharati Vidyapeeth
College of Architecture
pada Complex, Opp. Kharghar
Station, C.B.D, Navi Mumbai

303 Architectural Building Construction & Materials 3

Credits-4

Teaching Hours-

Lectures-54 periods of 50 minutes duration- 45 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculations)

Scheme of examination

Theory: one paper of three hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

Objectives-

Understanding concepts of framed structures in R.C.C.

Understanding methods of construction of various components of R.C.C. Structures

1. Structural framing in R.C.C for low rise buildings.
- 2 Foundation Systems, Floor Systems, Wall Systems, staircases, Roof Systems,
3. Moisture and Thermal protection in R.C.C. framed low rise buildings.
4. Movable light weight partitioning and paneling, Stairs in Interior spaces.

Sessional Work : based upon above in form of sketches, drawings, Case Studies, Reports.
Application to Architectural Design Projects.

304 Theory & Design of Structures 3

Credits- 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Sessional marks-
Internal- 50

External ----

Objectives:

Understanding of basic theories and principles of structural analysis
Understanding of properties of materials relevant to structural analysis
Understanding of behavior of structural elements under various conditions

1. Theory of simple bending

- a. Theory of simple bending only equations & problem.
- b. Design of timber & steel beams.
- c. Shear stress distribution.

2. Deflection

- a. Simply supported beams and cantilevers with distributed & point loads by Euler's theory.
- b. Introduction to Macaulay's method
- c. Application of deflection in structural planning

3. Direct AND Bending Stresses

- a. Combined stress distribution for Beam, column and footing
- b. Application to design the footing of wall and column (only plan dimension)

4. Basics of RCC

Grades of concrete and steel used in RCC.

Application of thumb rules for selecting dimensions of slab, beam and column for low rise and low span structures. Placement of steel based of Bending moment and shear force diagrams

5. Material testing

Cement(OPC)

Initial and final setting time

Consistency

Fineness

Compressive strength

Sand

Bulking, silt content, Fineness modulus

Bricks

Density, Water absorption, compressive strength



Principal
Bharati Vidyapeeth
College of Architecture
Alpada Complex, Opp. Kharghar
Railway Station, C.B.D, Navi Mumbai

305 Humanities 3

Credits-3

Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

The study of the socio-cultural circumstances, the art and the architecture of the following:

The decline of the Roman Empire

The beginnings of Christianity and the formation of the Holy Roman Empire

Early Christian architecture

The Byzantine age

The Romanesque age

Medieval Europe

The Gothic age

The rise of Islam and its impact on Europe

The Crusades and their aftermath; the fall of Constantinople

The Renaissance in Italy

The rediscovery of the Classical past and its impact on art, architecture, science and philosophy

Humanism

The Masters of the Renaissance

Mannerism

The Renaissance in the rest of Europe

The Reformation, its impact on art and architecture

The Counter-Reformation

Baroque art and architecture

The age of discovery

Colonization and the changed world order

The Enlightenment

The age of revolution: America and France

The Industrial Revolution

Its rise in England




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Demographic change and urbanization
New materials and technologies and their impact
New building types for the industrial age
The battle of 'styles'; nostalgia and exoticism
Neo-Classical and Neo-Gothic architecture

The Arts and Crafts Movements in Europe
Art Nouveau
Art Deco
Early modernistic impulses
Modern movements in art
Modern movements in architecture

306 Environmental Studies

Credits-2

Teaching Hours

Lectures- 36 periods of 50 minutes duration-30 hours

Sessional marks-

Internal- 50

External ----

Objective: To study and understand passive methods of environmental control

Climatology and Building Sciences

Micro climate and Macro climate
Energy flow in building
Human comfort
Traditional methods for achieving comfort

Passive Methods of control

Natural lighting
Solar Radiations and Architecture
Air flow patterns inside buildings and in building layouts
Natural ventilation

307 Architectural Representation & Detailing 3

Credits-4

Teaching Hours

Lectures- 36 periods of 50 minutes duration-30 hours

Studio- 36 periods of 50 minutes duration – 30hours

Sessional marks-

Internal- 100

External ----

Perspective-



Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Khe
Rly. Station, C.B.D, Navi Mun

Perspective of building elements
Perspective of interior spaces
Sciography-
Shades and shadows of buildings and parts of buildings

Sessional work – Perspective and Sciography exercises

Documentation and measured drawings

Methods of measurement of interior and exterior spaces, Building Elements.

Sessional work –
Architectural plans, sections, elevation of existing building/ interior space as per the measurements.

308 Architectural Building Services I

Credits- 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculation)

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

Objectives: understanding basic services required for a building and interior spaces

Sanitation:

Sanitary appliances and user space requirement
Various types of traps used with appliances
Design of toilets
Drainage and water supply connections to various appliances
Systems of building drainage

Water supply

Direct and indirect water supply for buildings
Connection from Municipal water main- Ferrule, water meter.
Design of water storage tanks, and down take pipes
Taps and valves used with various appliances

Sessional work

Market survey for appliances and accessories,
Water supply calculations
Water supply layout- connection from municipal main to buildings




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Water supply connections within the building
Design of toilets with water supply and drainage connections

309 Architectural Theory 1

Credits-2

Teaching Hours

Lectures- 36 periods of 50 minutes duration – 30 hours

Studio- -----

Sessional marks-

Internal- 50 marks

External ---

READING

Objectives:

1. To understand and comprehend ideas in architecture through writings in architecture
2. To appreciate architecture as the development of changing ideas over time, and as the representation of their particular time and context. To be able to chart the change of ideas chronologically over time.
3. To become familiar with and improve comprehension about architecture using theoretical texts and architectural criticism.

Sessional Work:

Students are expected to read from short and long writings about architecture and communicate their comprehension in writing and discussions/presentation in class. It is suggested that texts from the following authors be used to build up a body of knowledge about architecture (this is only a representative list):

Vitruvius, Andrea Palladio, John Ruskin, Louis Sullivan, Adolf Loos, Le Corbusier, writings from the Bauhaus, Peter Blake, Philip Johnson, Charles Jencks, Robert Venturi, Adrian Forty, Christopher Alexander, Leon Krier, Kevin Lynch, Rem Koolhaas, Bjark Engels, Charles Correa, Romi Khosla,

320 College Projects 3

Credits-3

Teaching Hours-

54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects:

Seminars, Tutorials/ additional classes for any course, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.



A handwritten signature in blue ink, appearing to be the name of the Principal.

Principal
Bharati Vidyapeeth
College of Architecture
Alpada Complex, Opp. Kharghar
Station, C.B.D, Navi Mumbai

321 Elective 3

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

Technology Studio

Credit and marks as per the scheme of examination for individual courses

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses

Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.

Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for Second Year B. Arch. Semester IV

401 Achitectural Design Studio 4

Credits-8

Teaching Hours

Lectures- -----

Studio- 144 periods of 50 minutes duration -120 hours

Sessional marks-

Internal- 100

External ---100

Objectives:

- To develop research skills for survey research and case study.
- To understand functioning of community spaces in rural areas/semi urban areas
- To study principles of design, construction, and technology based on tradition and experience.

Objectives of Design Projects

- To design spaces suitable for life style in rural/semi urban areas
- To conserve the natural surroundings and social fabric suitable for communities
- To design the buildings suitable to climatic conditions, by using local materials and traditional methods of construction.
- To understand and provide specific infrastructure required for communities.

Design projects

Built and un built spaces for Cluster & Communities,

402 Allied Design Studio 4

Credits-3

Teaching Hours

Lectures

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----



A handwritten signature in blue ink, appearing to be 'S. D. ...', located above the principal's name.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.

403 Architectural Building Construction & Materials 4

Credits-4

Teaching Hours-

Lectures-54 periods of 50 minutes duration- 45 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculation)

Scheme of examination

Theory :One paper of three hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

Objectives-

- Understanding concepts of framed structures in Steel for low medium span building
- Understanding methods of construction of various components of steel structures
- Understanding concepts of trusses for low and medium spans

1. Structural framing in STEEL for low rise medium span buildings.
2. Foundation Systems, Floor Systems, Wall / Cladding Systems,
3. Roof Systems- concepts of trusses
4. Moisture and fire protections in STEEL framed low rise medium span buildings.

Sessional work

Based on above in the form of drawings, sketches, case studies, Reports

404 Theory & Design of Structures 4

Credits- 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculations)

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

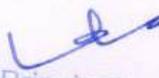
Sessional marks-

Internal- 50

External ----

Objectives:




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Understanding of basic theories and principles of structural analysis
Understanding of properties of materials relevant to structural analysis
Understanding of behaviour of structural elements under various conditions

1. Analysis of short and long column

- a. Short & long columns, slenderness ratio etc.
- b. Euler's & Rankine's Theory

2. Analysis of fixed beams

- a. Advantages & disadvantages.
- b. Determination of negative & positive bending moments.
(confine the loading to point & UDL covering full span only).

3. Analysis by moment distribution method

Continuous two span and three spans beams with UDL and Point loads with and without support settlement. Single storey and single bay non sway frame under UDL and point load. Comparison of the analysis results of simply supported, continuous and portal frame idealization of three dimensional structures.

4. Introduction to Steel Design

Basic information about different steel section used as structural members and steel table. Brief introduction to planning of low rise and low span steel structures

5. Soil Mechanics

- a. Importance of subject.
- b. Types of soil and their properties.
- c. Methods of compaction and consolidation.
- d. Void ratio, Porosity, Bulk density, Moisture content, Degree of saturation, Liquid limit, Plastic limit, etc.
- e. Test for assessing load bearing capacity of soil.
- f. Soil properties and characteristics relevant to the design of foundations.
- g. Criteria for selection of foundation type for different soil conditions.
- h. Effect of water level, settlement of soil.
- I. Failure of foundation systems.
- j. Improvement of soil properties.
- k. Design procedure for simple load bearing foundations.

6. Material testing

Coarse aggregate

Fineness modulus

Crushing test

Concrete

Compressive strength

Slump cone test



A handwritten signature in blue ink, consisting of a stylized 'S' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Pimpri Complex, Opp. Kharghar
Railway Station, C.B.D, Navi Mumbai

Mangalore tile
Flexure test

405 Humanities 4

Credits- 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

The study of the socio-cultural circumstances, the art and the architecture of the followings:

The rise of the Mahajanapadas
The organization of kingdoms
Art and architecture of the rock cut temples
Persian and Hellenistic influences

The Mauryas and the Guptas
The legacy of Ashoka

The resurgence of Hinduism
The rise of the Shaivite and Vaishnavite traditions
The great temples of India, their design, evolution and significance
Khajuraho, Konarak, Halebid, Belur, Somnathpur, Aihole, Badami, Pattadakal
The Dravida Style
The Nagara Style
Temple towns
Timber temple traditions of Kerala and Himachal Pradesh
The rise of the Vijayanagara empire
Development of state and domestic architecture in various parts of India

The rise of Islam
Timber mosques of Kerala
The influences of the Ghorid/ Ghaznavid invasions

The establishment of the Sultanates




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

The Khaljis and Delhi
The later Sultanates: the Tughlaqs and the Lodhis- Art and architecture
The Gujarat and Deccan sultanates- Art and architecture
Rajput architecture

The Mughals
Babar and Humayun- Art and architecture
The interregnum of Sher Shah Suri
Akbar
His patronage, influence and syncretic legacy
Akbar's karkhanas of art, miniature painting and calligraphy
Akbar's architecture
Jehangir, Shahjehan and Aurangzeb- Art and architecture
The decline of the Mughals and the rise of regional powers

The establishment and influence of the East India Companies
The Portuguese and Dutch influence
The port cities of Calcutta, Madras and Bombay
The architecture of the Presidency towns
Company paintings

The uprising of 1857 and its aftermath
New British architecture in India
Neo-Classical architecture
Neo-Gothic architecture, its impact on Urbs Prima Indis .

The influence of the Bombay School of Art on Art and architecture in the 19th century Indo-Saracenic architecture

The urban architecture of Bombay in the early 20th century
Art movements in the early 20th century in India
The first Indian Architectural practices
Art Deco in Bombay and India
Modernist impulses in art and architecture in the years leading to independence



A handwritten signature in blue ink, consisting of a stylized, cursive name.

Principal
Bharati Vidyapeeth
College of Architecture
Pelpada Complex, Opp. Kharghar
Railway Station, C.B.D, Navi Mumbai

407 Architectural Representation & Detailing 4

Credits-4

Teaching Hours

Lectures- 36 periods of 50 minutes duration-30 hours

Studio- 36 periods of 50 minutes duration – 30hours

Sessional marks-

Internal- 100

External ----

SURVEYING AND LEVELLING

Objectives:

To Understand methods of survey, and documentation,
Introduction to tools and equipments of Land surveying
Introduction to modern methods of surveying

1. Brief history of land surveys executed by Government Departments
Information and working of land record offices

2. Reading of Survey maps, understanding of features and undulation of ground

3.Chain Survey and Triangulation

A study of instruments used for chain Survey
Chains, Ranging Rods, Tapes, Optical square, Cylindrical cross staff

B. Chain line ranging, Measurement of offsets in field book

C. Recording of Chain survey measurements in field book

D. Plotting of Chain survey, scales used in plotting

E. Calculation of Area

4.Transverse Survey

A. Instruments used Prismatic compass and Theodolite

B. Recording measurements of prismatic compass survey, magnetic Meridian, Back, Fore, and reduced Bearings, Local attraction and its correction

C. Plotting of Transverse survey, Elimination of closing error

5. Various uses of Theodolite,

Finding out heights or distances of inaccessible structures

E. Lining out of large buildings, and roads

Sessional Work-




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Based upon above in the form of plates, drawings, class Tests

408 Architectural Building Services 2

Credits- 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of 18 hours are considered for credit calculation)

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

Objectives:

Understanding of external services of water supply and drainage for the buildings, and site lay outs.

Systems of building drainage

Design of under ground drainage system

Use of inspection chambers and disconnecting chambers

Connection to municipal sewer, use of Drop manhole

Ventilation of drainage system

Sewage disposal systems for small projects

Roof drainage

Site and surface drainage

Rain water harvesting

Various traps used in site layouts

Sessional Work- Drainage lay out

Surface drainage and rain water harvesting



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

409 Architectural Theory 2

Credits- 2

Teaching Hours

Lectures- 36 periods of 50 minutes duration – 30 hours

Studio- -----

Sessional marks-

Internal- 50 marks

External ---

WRITING

Objective:

1. To be able to write with clarity about architecture and ideas in architecture.
2. To be able to correctly use architectural terms to communicate architectural ideas.
3. To be able to convey effectively in words the thinking behind one's own designs being carried out in various studios.
4. To learn to use referencing and citation as an essential tool of writing, and to understand clearly issues and consequences of plagiarism.

Sessional Work: this semester sessional work may be carried out in the form of writing workshops leading to short and longer pieces of writing. Resources persons such as published writers, architectural journalists and academics may be invited to conduct these workshops and encourage interaction in writing and reading by the students themselves. Much of the resource material from the previous semester may be relied upon to ensure vertical continuity of the subject.

420 College Projects 4

Credits- 3

Teaching Hours-

54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects:

Seminars, Tutorials/ additional classes for any course, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

421 Elective 4

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

Technology Studio

Credit and marks as per the scheme of examination for individual courses

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses

Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.

Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses



A handwritten signature in blue ink, appearing to be "S. S. S.", written over the printed name of the Principal.

Principal

Bharati Vidyapeeth
College of Architecture

Netaji Complex, Opp. Kharghar
Station, C.B.D, Navi Mumbai

AC 19-9-2013
Item No. – 4.19

UNIVERSITY OF MUMBAI



Syllabus for the Bachelor of Architecture

Programme : B. Arch.

**Bachelor of Architecture
(Semester V & VI)**

(As per Credit Based Semester and Grading System with
effect from the academic year 2014–2015)



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for Third year B. Arch. Course Semester V

501 Achitectural Design Studio 5

Credits-8

Teaching Hours

Lectures- -----

Studio- 144 periods of 50 minutes duration -120 hours

Sessional marks-

Internal- 100

External ---100

Course Objectives

- To understand the potential of urban land and optimization of spaces
- To understand architectural forms, and corresponding functions for different types of buildings.

Expected Course out come

Architecture for urban commercial, recreation, entertainment activities for large group of people with respect to following

- Development of appropriate architectural forms, their grouping and composition,
- Provision of spaces required for various activities.
- Provision of spaces for required infrastructure and services

502 Allied Design Studio 5

Credits-3

Teaching Hours

Lectures

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.

Credits-3

503 Architectural Building construction 5

Credits-4



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Teaching Hours-

Lectures-54 periods of 50 minutes duration- 45 hours
Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio
(out of which 15 hours are considered for credit calculations)

Scheme of examination

Theory: one paper of three hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

Building Skin in various light weight materials.

: Building Skin in various lightweight materials for Framed Structure

- Curtain walls with transoms, mullions and infilling panels of various materials
- Suspended glazing
- Composite panel cladding to the existing structure

Canopies in various materials.**Foundation Systems**

Types of foundation systems,

Shallow foundations

Concept of Buoyant Foundation

Spread Foundation, its need and application

Raft Foundations of various types viz. Slab, Slab & Beam, and Cellular type

Foundation Walls

Column footings- Strip, Combined, and Cantilevered footings

Sessional work based upon above in the form of case studies, site visits, sketches, Drawings.

504 Theory and Design of structures 5

Credits 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Sessional marks-

Internal- 50

External ----

Theme- Structural steel design of primary elements

1. Understanding steel table and readily available steel sections in market.
2. Understanding connections
Riveted , welded, and bolted for steel framed building, trusses etc
3. Design of tension members in trusses
4. Design compression members in trusses and columns
5. Design of beams
6. Design of foundations, slab base, gusseted base and grillage

Sessional work based upon above .

505 Humanities 5

Credits 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External -

Theme- Art and Architecture

Modern movements in art and architecture

Between the wars

After the wars

Architectural evolution influenced by developments in technology and structural systems

Postmodern (and late-modern) movements in art and architecture

Critical and philosophical influences on architecture after the 1980s

Critical regionalism

Deconstruction

Architectural and art trends in the first decade of the millennium

Art and architecture in India since independence

Modernism

Architecture for the State

Influence of Le Corbusier and Kahn

Indian modernists




Principal
Bharati Vidyapeeth
College of Architecture
Beipada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

The influence of Vistara and the validation of the vernacular
Critical regionalism

Architectural and art trends in the first decade of the millennium in India

507 Architectural Representation and detailing

Credits- 4

Teaching Hours

Lectures- 36 periods of 50 minutes duration-30 hours

Studio- 36 periods of 50 minutes duration – 30hours

Sessional marks-

Internal- 100

External ----

Theme-A.Quantity Surveying and Estimating
B.Specifications

Introduction:-Definition, Aim and object, Scope and importance of subject.

Types of Estimates- Approximate and Detailed.

Methods of Approximate Estimating – Built up or Carpet Area Method, Cubic Contents, Method and Numbers System, Current Rates in Bombay for Approximate Estimating.

Detailed Estimate on item rate basis- Quantities and Abstract of Estimate, Bill of Quantities of a Tender, Contingencies.

Rates for Civil work items- as per Municipal or P.W.D. Schedule Rates and Current market rates in Bombay, Units for rates.

Taking out quantities for civil works of Load Bearing structures and preparation of Abstract.

Taking out quantities for civil works of Load Bearing structures and preparation of Abstract.

Sessional Work based upon above topics.

B. Specifications

Importance of specification in the construction activities

Methods of drafting specifications with correct order and sequence

Types of specifications-detailed and brief, open and restricted, performance, and standard (Indian standard Specifications and P.W.D. specifications)

Language of specifications

Organization of project specifications

Sessional work

Brief specification of a building project




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

508 Architectural Building services 3

Credits 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

Theory: one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

Electricity

Lighting

Acoustics

Electrical services:

Basic concept of electricity: direct and alternating currents

Three phase and single phase supply

Electrical supply to sites and distribution to buildings

Electrical distribution within buildings

Electrical layouts for interior spaces

Open and concealed wiring

Types of wires

Wiring accessories

Concepts of electrical safety- Earthing, MCB, elcb, lightning conductor

Artificial lighting

Direct and indirect lighting

Types of lamps

Illumination levels

Acoustics-

concept and terminology

Room Acoustics

Propagation and reverberation of sound

Acoustics for lecture halls and Auditoriums

Sessional work based upon above.

509 Architectural theories 3



A handwritten signature in blue ink, appearing to be 'S. D. ...', written over the printed name of the Principal.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Credits- 2

Teaching Hours

Lectures- 36 periods of 50 minutes duration – 30 hours

Studio- -----

Sessional marks-

Internal- 50 marks

External ---

RESEARCH AND CRITICISM

Objectives:

1. To understand the fundamentals of theoretical architectural research, its objectives and its essential methodologies.
2. To be able to build up from documentation and data collection to critical analysis and evaluation. Bloom's Taxonomy may be used by teachers to convey the various levels in research and evaluation to students.
3. To develop and attitude of Critical Thinking (reflective reasoning about beliefs and actions and ways of deciding whether a claim is always true, sometimes true, partly true, or false, from Robert Ennis) and its essential dimensions: the analysis, assessment, dispositions, skills and abilities and obstacles or barriers to critical thought (from critcalthinking.org)

Sessional Work: This semester small projects of research and reflective writing shall be undertaken by students to develop personal skills of research presentation and critical evaluation (using previously gained knowledge of referencing and citation). Students should be encouraged also to write pieces that are argumentative, and disputational to be able to convey with clarity and effectiveness alternative and individualistic thinking about architecture.

520 college projects 5

Teaching Hours-

54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects:

Research and documentation, Seminars, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

521 electives 5

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Riy. Station, C.B.D, Navi Mumbai

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

Technology Studio

Credit and marks as per the scheme of examination for individual courses

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses

Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.

Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for Third year B. Arch. Course Semester VI

601 Architectural Design Studio 6

Credits-8

Teaching Hours

Lectures- -----

Studio- 144 periods of 50 minutes duration -120 hours

Sessional marks-

Internal- 100

External ---100

Course Objectives

- To understand nature of Urban institutions,
- To understand the context and character for urban institutions
- To understand requirement of architectural forms, spaces for corresponding activities

Course out come

- Architecture for enhancement of institutional character
- Design development and detailing for integration of infrastructure and building systems

602 Allied Design Studio 6

Credits-3

Teaching Hours

Lectures

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.



A handwritten signature in blue ink, appearing to be 'S. D. ...'.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

603 Architectural Building Construction 6

Credits- 4

Teaching Hours

Lectures-54 periods of 50 minutes duration- 45 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio
(out of which 15 hours are considered for credit calculations)

Scheme of examination

Theory: one paper of three hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

RCC Floor system for large bay sizes

- Flat Slab Floor: Study of Plate slab, Plate slab with drops, and Plate slab with drops and column capitals
- Floors in One way and Two way ribbed slab, Waffle slab, Diagrid beam slab

Pre cast and Prefab building elements in various materials

- Pre cast floor system with RCC beams, RCC Channels, and infilling floor blocks of various materials
- Connections and assembly of various building elements (prefab walls, beams, columns, chajjas, staircase flights, floor units, etc.)

Sessional work based upon above.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

604 Theory and Design of structures 6

Credits 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

1. Concrete technology as relevant to architecture

Aggregates that constitute making of concrete, types , source and availability, grades of concrete, purpose and types of additives to concrete , use and purpose of special cements , high strength concrete, transportation of concrete, placement of concrete, compaction and curing of concrete, ready mix and site mix concrete, durability of concrete, formwork for different components of rec

2. Reinforced cement concrete of primary structural elements

Basic theory of flexure for singly and doubly reinforced sections

One way and two way slab systems and doglegged staircase

Rectangular beams

Rectangular, square & circular columns

Isolated pad, stepped & sloped footing

Precast concrete elements, its application and suitability

Steel – concrete composite construction in buildings – a very basic descriptive introduction. Encased concrete construction.

3. Rcc theory of grid floors

Rectangular grid

Dia-grid

4. Rcc theory of flat slab

I) with column capital and drop

Ii) only drop

Iii) flat plate

Iv) an appreciation of the adoption of flat slab construction vis-à-vis beam / slab construction and vice-a-versa.

The above elements are to be taught with minimum calculations and with emphasis on making correct structural drawings and good structural planning leading



A handwritten signature in blue ink, appearing to be 'S. D. ...', located above the principal's name.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

605 Humanities 6

Credits 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External -

Theme- Understanding Architecture with reference to social issues related to Urbanization

Urbanization at global level and in India.

Globalization and its effects on urban life

Major trends urbanization and Pace of urbanization in different parts of India

Changes in the pattern of urbanization in metro cities

Growth of smaller towns into cities, and its repercussions

Problem arising out of rapid urbanization

Genesis of Urbanization

Urban population growth due to natural increase of migration into urban areas,

Nature of issues related to urban migration

Work patterns in urban areas.

Urban issues to be studied with special reference to

Mumbai Metropolitan Region(MMR)

Preservation of Natural resources, natural heritage

Understanding Built heritage, and social- cultural heritage

Public spaces and public buildings with reference to accessibility, Gender, age

Transport and real Estate

Public Housing

Infrastructure development

Public Health problems



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

607 Architectural Representation and detailing

Credits- 6

Teaching Hours

Lectures- 36 periods of 50 minutes duration – 30 hours

Studio- 72 periods of 50 minutes duration -60 hours

Sessional marks-

Internal- 100

External ---100

Working Drawings

Working drawing of framed structure indicating following to appropriate scale

Foundation plan

Floor plans

Elevations and sections as necessary

Details for any three of following

Roofing system, walling system, staircase, flooring system, openings

608 Architectural Building services 4

Credits 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

Theory: one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

Theme- Fire protection for buildings

Services for high rise Buildings

Fire protection

Study of fire regulations, Code of safety

Combustibility and fire resistance of building materials

Design consideration for fire safety

Fire escape routes

Fire alarms and warning systems

Systems for fire protection and Fire fighting

Water supply for Fire fighting- Static tanks, Hydrants, Wet and dry riser, sprinklers

Services for high rise Buildings (Space and installation requirement)

Water supply for high rise buildings

Electrical distribution for high rise buildings

Vertical transportation system –

Lifts – carrying capacity and travel time, grouping of lifts- installation requirement

Escalators-Provision of space and installation requirement

Sessional work based upon the above topics.



A handwritten signature in blue ink, appearing to be 'S. D.' or similar, written over a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

620 college projects 6

Teaching Hours-

54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects:

Research and documentation, Seminars, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

621 electives 6

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

Technology Studio

Credit and marks as per the scheme of examination for individual courses

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses
Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.

Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

AC 19-9-2013
Item No. – 4.21

UNIVERSITY OF MUMBAI



Syllabus for the Bachelor of Architecture

Programme: B. Arch.

**Bachelor of Architecture
(Semester VII & VIII)**

(As per Credit Based Semester and Grading System with
effect from the academic year 2015–2016)



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for Fourth Year B. Arch. Semester VII

701 Achitectural Design Studio 7

Credits-8

Teaching Hours

Lectures- -----

Studio- 144 periods of 50 minutes duration -120 hours

Sessional marks-

Internal- 100

External ---100

Theme- Housing

Course Objectives

- Understanding typologies of housing in Urban Areas.
- Understanding quantitative and qualitative aspects of mass housing.
- Under standing user aspirations and user affordability

Expected Course out come

Design of housing schemes in urban area, along with necessary infrastructure, services, and amenities.

702 Allied Design

Credits-4

Teaching Hours

Lectures 36 periods of 50 minutes duration – 30 hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.

Suggested Themes: town planning, Urban Design, Housing



A handwritten signature in blue ink, appearing to be "U. D." followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

703 Architectural Building construction 7
Credits-4

Teaching Hours-

Lectures-54 periods of 50 minutes duration- 45 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio
(out of which 15 hours are considered for credit calculations)

Scheme of examination

Theory: one paper of three hours duration Max. Marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

Basement and Deep Foundations:

Single and multi level basements for Parking and Services.

Deep foundations using Piles.

Introduction to High rise buildings:

High rise buildings in RCC and Steel frame of varying structures

The construction process of high rise buildings

Introduction Earthquake Resistant Construction:

Earthquake resistant construction for Load bearing and Framed structures




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

704 Theory and Design of structures 7

Credits 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

Theory ---

Sessional marks-

Internal- 100

External ----

1.introduction to design of deep foundation

It is to be taught with an emphasis on their suitability with respect to different types of buildings and soil conditions and structural drawings (no calculation)

2.combined footings

1 rectangular footing

2 trapezoidal footing

3 strip footing

4 raft footing

3.piles footings

Pre cast and cast in situ piles and pile caps

4. Retaining walls

5.earth quake resistant structure

6. Theory and principles of structural design of tall buildings.



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

**707 Architectural Representation and detailing 7
Credits 5**

Teaching Hours

Lectures- 36 periods of 50 minutes duration-30 hours
Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External ----

Theme – Project Specifications

Building By laws and Approval Drawings

Project specifications

Detailed specifications of various work items for a structure from excavation up to finishing in super structure.

1. Excavation- filling, timbering, trenches
2. Brick Masonry-
3. Stone Masonary
4. specification for R.C.C. work including mixing, placing, curing of concrete
5. Specifications for Fabrication and assembly of structural steel frame buildings
6. Rendering and plastering
7. Floor finishes
8. wall finishes
9. flooring cast in situ including I.P.S., Terrazo
10. Roof finishes in tiles and roofing sheets

Sessional work – Project specification for a building to include above items.

Building by laws and Approval Drawings

- Introduction to Building bye laws and regulations- their need and relevance
- Study of National Building Code
- Implications of Development control rules for greater Mumbai as approved by Government of Maharashtra on contemporary growth of built environment of Mumbai.
- Calculations of built up area and F.S.I.
- Comprehensive study of Building Bye laws relating to the strength and stability of structures, bye-laws relating to light and ventilation, and sanitation of buildings.
- Various drawings required for approvals from Authorities, on the basis of by Development Control rules and by laws

Sessional work – Set of approval Drawings and reports.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

708 Architectural Building services 5

Credits 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

Theory: one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

Theme- Heating, Ventilation, and Air conditioning

Comfort conditions- temperature control, Humidity control, air filtration, and air changes.

Heating of spaces- local and central heating- heating equipment
Thermal conductivity, and insulation.

Ventilation-

Mechanical ventilation in buildings-

Mechanical Ventilation in Basements

Fans, blowers, air filters

Air conditioning

Concept of refrigeration cycle, and air cycle

Systems of air conditioning- local and central

Duct work and air conditioning layouts

Fittings and fixtures

Sessional work

Case studies, market surveys, and drawings, based upon above.

710 Professional Practice 1

Credits- 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45hours

Studio- ----

Scheme of examination

Theory: one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

- **Introduction to Architectural profession,**
- **Role of professional bodies**



A handwritten signature in blue ink, consisting of a stylized 'B' and 'V' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- Architect's Registration Act 1972
- The professional role, responsibilities, duties, liabilities of Architects
- Code of professional conduct
- Code relation to Architectural competition
- Copy-rights of drawings

Office

Office structures – Small practice, medium practice & Large practice.
Nature of partnership, registration of firm and dissolution

Office set up and administration

Task allocation – Work plans, monitoring the plans, review meetings, record keeping - -
Inward, Phone calls, Minutes of meeting, To do list, wish list-Time Management

Tenders

Types of tenders and tender document,
World Bank formats, Indian Banks Association guidelines, PWD, CPWD, Tender forms
Tender draft notices and inviting of tenders
Procedure for opening and selection of tenders
Qualification criteria, Bid capacity, freak rates, rate analysis..
Analysis and report to owner
Work order

Contract

Types of contracts and contract documents
Detailed knowledge about various conditions of contract as published by Indian Institute
of Architects and specially about
Earnest Money
Security Deposit
Retention Money
Mobilization Fund
Bank Guarantee
Architect's Instructions
Clerk of works
Variation and Extras
Defects after completion
Certificate and Payments
Insurance and fire insurance
Liquidate damage
Termination of Contract




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

720 college projects 7

Teaching Hours-

54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects:

Research and documentation, Seminars, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

721 electives 7

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

(to be developed by individual colleges)

Technology Studio

Credits and marks as per the scheme of examination for individual courses

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses

Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.

Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Syllabus for Fourth Year B. Arch. Semester VIII

811 Professional Training

Credits-16

Teaching Hours

Lectures- -----

Studio- ----

Sessional marks-

Internal- ---

External ---200

Theme-Professional Training

During this term the students have to undergo training out-side the institute, in such offices / organizations as will give him/her the necessary opportunity to improve and consolidate his/her Architectural Knowledge.

During the practical training the student is expected to work in accordance with the discipline of the organization, and will have to make progress which will be carefully watched by the institution. The student will have to submit the a detailed report of the experience gained during the professional training.

Logbooks will have to be maintained by the students and counter signed by the principal of the firm , and also by the teacher in charge .

Pro forma for professional experience

Academic year

Name of the student -

Name of the office / organization with address

Registration details

Date of Joining:

Date of leaving:

Employers report: Brief Details of the experience gained by the student stating the nature of work

Signature of
The employer

Signature of
Professor In charge




Principal
Bharati Vidyapeeth
College of Architecture
Belapur Complex, Opp. Kharghar
F. S. Road, C.B.D, Navi Mumbai

UNIVERSITY OF MUMBAI



Syllabus for the Bachelor of Architecture

Programme : B.Arch.

Bachelor of Architecture
(Semester IX & X)

(As per Credit Based Semester and Grading System with effect from the academic year 2016-17)



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for final year B. Arch. programme Semester IX

901 Achitectoral Design Studio 8

Credits-8

Teaching Hours

Lectures- -----

Studio- 144 periods of 50 minutes duration -120 hours

Scheme of examination

Theory: -----

Sessional marks-

Internal- 100

External ---100

Course Objectives

Collection and analysis of data related to Design topic.
Application of technical knowledge to design detailing
Understanding impact of socio economic factors on user requirements
Study of climatic conditions, Site analysis, site planning
Understanding traffic patterns and transportation.

Expected Course out come

Architecture for urban commercial, transportation, recreation, entertainment activities for masses with respect to following

- Development of appropriate architectural forms, their grouping and composition,
- Architectural detailing.
- Provision of required infrastructure and services
- Design of complex/ multifunctional buildings and surrounding spaces

902 Allied Design Studio 8

Credits-5

Teaching Hours

Lectures- 36 classes of 50 minutes duration – 30hours

Studio- 54 periods of 50 minutes duration -45 hours

Scheme of examination

Theory: one paper of two hours duration Max. marks- 50 Min marks for passing- 20



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Sessional marks-

Internal- 50 marks

External ----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.

Suggested Themes: Town planning, Urban Design, Housing, Environmental design

903 Architectural Building construction 8

Credits-3

Lectures-36 periods of 50 minutes duration- 30 hours

Studio- 18 periods of 50 minutes duration- 15 hours

(to be conducted as a part of technology studio of 36 periods of 50 minutes duration – 30 hours)

Scheme of examination

Theory: -----

Sessional marks-

Internal- 100 marks

External ----

Long span structures, Long span beams, Long span Trusses & Roof structures.

Long span Arches,

Cable structures,

Folded Plate structures, and Space frames,

Shell structures.

904 theory and Design of Structures 8

Credits-2

Lectures-18 periods of 50 minutes duration- 15 hours

Studio- 18 periods of 50 minutes duration- 15 hours

(to be conducted as a part of integrated studio of 36 periods of 50 minutes duration – 30 hours)

Scheme of examination

Theory: -----

Sessional marks-

Internal- 100 marks

External ----

1. Long span structures

Long span beams, Long span Trusses & Roof structures.

Long span Arches,

2. Cable supported structures


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Campus, Bhandisar
Rly. Station, C.D. Road, Navi Mumbai



3. Folded Plate structures, Shell structures.
4. Space frames
5. Portal frames
6. Pre-stressed Concrete, Pre-stressing and its applications to buildings, Principles of Pre-tensioning & Post-tensioning

Sessional work based upon above.

906 Environmental Studies 4

Credits-3

Lectures-36 periods of 50 minutes duration- 30 hours
 Studio- 18 periods of 50 minutes duration- 15 hours
 (to be conducted as a part of technology studio of 36 periods of 50 minutes duration – 30 hours)

Scheme of examination

Theory: -----

Sessional marks-

Internal- 100 marks

External ----

Objective: To study and understand sustainable building design processes

1. Concepts of Sustainable Building

Social, Economic and Environmental aspects
 Different types of Indian and International Rating Systems (GRIHA, LEED, IGBC, Eco Housing, BREEAM, CASBEE, etc)

2. Studying the Nation Building Code (NBC 2005) code with respect to the Chapter 11 on Sustainability

3. Energy Efficiency

Energy Efficient Design (Achieving Efficiency through design)
 Energy Conservation Building Codes (ECBC) Codes 2007
 Learning Different Energy Simulation Techniques (Energy / Lighting)
 Advanced Energy Efficient Standards and Systems
 HVAC
 Lighting
 Appliances and Equipments
 Building Envelope

Understanding and calculation of energy consumption of a House, office building



Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

4. Water Efficiency

Water and Waste Water Management (Study of Water Balancing)
Rain Water Harvesting
Efficient waste water treatment techniques (DEWATS, MBR, MBBR etc)
Efficient Water Fixtures

5. Material Efficiency

Understanding various parameters for Sustainable Building Materials and evaluate using LCA (ISO 14000)

6. Solid Waste Management

Sessional work based upon above in form of case studies, report, presentations.

908 Architectural Building services 6

Credits-2

Teaching Hours

Lectures-18 periods of 50 minutes duration- 15 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of technology studio of 36 periods of 50 minutes duration – 30 hours)

Scheme of examination

Theory: -----

Sessional marks-

Internal- 50

External ---

Theme:

Integrated services
Specialized Services required for specific functions/ building types (for example hospitals, hotels, auditorium)
Specialized services as per climatic conditions
Building management systems
Infrastructure and amenities for public spaces

Sessional work: Reports and Case studies related to Thesis topic.

910 Professional Practice 2


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C. B. D. Navi Mumbai

Credits-3

Teaching Hours

Lectures- 54 classes of 50 minutes duration – 45 hours

Studio- -----

Scheme of examination

Theory: one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks

External ----

Instructions in the following should be such as to understand the purpose and implication of its application, instructions to the students should be general without going too much in detail in legal aspects.

Acquisition

General principles of land acquisition with reference to norms of compensation.

Purpose of acquisition

Valuation

Elements of valuation- market value methods of valuation specially income capitalization technique and physical method of valuation

Elementary examples including one for ownership flats and premises, Building up or determining rate of capitalization based on gilt-edged theory and general investment market theory.

Valuer and his/her function including registration

Meaning of immovable property- ownership and possession.

Joint tenancies and tenancy in common- types of tenure with special reference to freehold and leasehold tenure.

Different types of tenures of land- as commonly found- leasehold and freehold and lease and other rents.

Rent- different types of rent- standard rent, example on working out of standard rent. Ratable value and its relation to rent- nature and purpose of ratable value. Rent control act

Definition of property- ownership and possession- Joint tenancies and tenancy in common- types of tenure with special reference to freehold and leasehold tenure.

Principle types of landed properties- their outgoings calculation of rented value and not income market value.

Principles governing the rate of interest required for different types and class of properties- gilt edged securities.

Valuation



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Ownership basis flats
Use in practice(Construction is not contemplated)
Gross annual value ratable value and their application

Dilapidation
Procedure for preparing report and schedule of dilapidations
Settlement of claims
Law related to structural and general repairs

Fire Insurance
Insurance policy and cover note
Fire loss assessment claim and report
Insurable value of the property.

Easement of Light, Ventilation and Access.

Sessional work based on above

911 Design Dissertation 1

Credits-4

Teaching Hours

Lectures- 18 classes of 50 minutes duration – 15hours
Studio- 54 classes of 50 minutes duration – 45 hours

Scheme of examination

Theory: -----

Sessional marks-

Internal- 50 marks

External viva – 50 marks (in the beginning of semester 10)

Students are required to choose a topic and conduct research under the guidance of internal teachers. They are required to submit a report to in the given format.

The report should include

Title and description of the topic

Justification for Architectural intervention in context.

Back ground study

Review of related literature

Analysis of terms

Methodology of study (Survey, Case studies, project reviews)

Findings and analysis based on the methodology

Design objectives based upon the findings, and development of design brief

Site selection criteria


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Description of the site
Site analysis to include local Architectural context, and socio economic conditions.
Climatic and environmental conditions, and prevalent bylaws.

921 Elective 8

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

The electives are to be offered by individual colleges based upon current issues in Architecture and Urbanity

922 Elective 9

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

The elective can be chosen by individual students based upon the topic related to Design Dissertation, under the guidance of internal teacher / guide.



A handwritten signature in blue ink, consisting of a stylized 'D' shape with a horizontal line underneath.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Syllabus (Course Content) for final year B. Arch. programme Semester X

1006 Environmental Studies 5

Credits-3

Lectures-36 periods of 50 minutes duration- 30 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of technology studio of 144 periods of 50 minutes duration – 120 hours)

Scheme of examination

Theory: -----

Sessional marks-

Internal- 100 marks

External ----

Objective: To evaluate and apply sustainable building strategies over design.

- 1. Post occupancy evaluation of case studies of student's thesis work.**
- 2. Urban sustainability**
- 3. Impacts of built environment on its surroundings.**

1007 Architectural Representation and detailing 8

Credits 6

Teaching Hours

Studio-108 periods of 50 minutes- 90 hours.
(to be conducted as a part of technology studio of 144 periods of 50 minutes duration – 120 hours)

Scheme of examination

Theory: -----

Sessional marks-

Internal- 100

External ---100

External viva will be conducted simultaneously for Design dissertation and design detailing

Students are required to submit a report to describe :
Structural system
Method of construction and materials
Active and passive Systems related to building sciences and environment protection

Required Drawings :

Detailed sections showing structural system




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Schematic plan of design with services
Students are encouraged to detail out any significant part of their design under supervision of guides.

1012 Advanced Building construction and structures
Credits-3

Lectures-36 periods of 50 minutes duration- 30 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of technology studio of 144 periods of 50 minutes duration – 120 hours)

Scheme of examination

Theory: -----

Sessional marks-

Internal- 100 marks

External ----

1. Study of various Structural systems and methods of construction
2. selection criteria of structural system and method of construction for building types
3. Intelligent structures and control of structural response

Sessional work – Case studies, reports

Applications- structural and construction details for design Dissertation projects


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Ghatkopar
Rly. Station, C.P. District, Mumbai

1009 Architectural Theories 4

Credits-2

Lectures-36 periods of 50 minutes duration- 30 hours
Studio -----

Scheme of examination

Theory: -----

Sessional marks- 50

Advanced Theories

Theory is an integral aspect of cultural analysis of which architecture is central. Significant inputs to current architectural theory have been from disciplines outside architecture that have made thinking richer and more relevant. Architectural Theory today is multi-disciplinary in nature, and this has significant bearing on architectural design.

The objective of learning in this semester is to make students aware of the current discourses in architecture through a direct interaction with architectural thinking and ideas. It is to make comprehensible the evolution of ideas in architecture, especially after the modernist era. Students should be provided readings, and discussions on both the ideas and the language of theory are encouraged, using actual examples of architecture. Sessional work should include writing about architecture, becoming conversant with the current language of theory and gaining an insight and sensitivity to architectural thinking that influences architectural practice today.

1.0 What are the current discourses in architecture today?

Understanding the effects of contemporary thought in society and culture today, and its impact on architectural design. Understanding theory as an academic discipline.

2.0 Tracing the rise of theory in architecture and culture after modernism. The significance of post-modern and post millennial discourses in architecture. Developing a post-modern world view.

3.0 The multi disciplinary approach: Understanding ideas from outside architecture that have informed current architectural discourse- from philosophy, sociology, linguistics, psychology, feminism, post-colonial studies, information technology, art, cultural and critical theory, etc. (Teachers may choose significant disciplines from which writings can be discussed)

4.0 Describing through theoretical discourse the post-millennial world we live in and the impact of architecture in our world today.



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D. Navi Mumbai

1010 Professional Practice

Credits-3

Lectures-36 periods of 50 minutes duration- 30 hours

Studio-

Scheme of examination

Theory: -----

Sessional marks-

Internal- 50 marks

External ----

Professional and legal responsibilities of Architects

Arbitration clause.

Arbitration, Conciliation and Mediation.

Arbitration proceedings and Awards.

Duties and liabilities in profession.

Legal responsibility of architect to Employer.

Government bodies and local bodies.

Express and implied authority of the Architect.

Architect's relationship with the Client and the Contractor.

Duration of liability.

Consumer Protection Act 1986.

All Acts related to non agricultural lands in relation to Building activities related to regions such as M.R.T.P, M.H.A.D.A and M.M.R.D.A. acts

Environmental policy and laws related to protection of environment.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

1011 Design Dissertation

Credits-16

Lectures-----

Studio- 288periods of 50 minutes duration -240 hours

Scheme of examination

Theory: -----

Sessional marks-

Internal- 200marks

External -200

External viva will be conducted simultaneously for Design dissertation and design detailing

Students are required to develop the design as per the design objectives and design brief submitted in the report.

Drawings should include location plan, site plan, detailed floor plans, elevations, views and large scale sections.

1022 Elective 10

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100

External -----

The elective can be chosen by individual students under the guidance of internal teacher



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

1.3.1

Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

C) List of topics in the Architectural Design Project course in B. Arch Programme which addresses cross cutting issue




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
 Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

Design Topic			
Academic Year	Class	Architectural Design	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
2022 - 2023	1st Year - Sem I	Kiosk Design	Human Values
	1st Year - Sem II	Artist's Bungalow at Kharghar	Human Values
	2nd Year - Sem III	Z. P. School	Human Values, Gender Equity, Environment and sustainability
	2nd Year - Sem IV	Rural Development Center	Environment and sustainability
	3rd Year - Sem V	Nature Interpretation Center	Environment and sustainability
	3rd Year - Sem VI	Education Institute for Architecture and Design	Professional Ethics, Environment and sustainability
	4th Year - Sem VII	Staff Housing in Dehradun	Human Values
	5th Year - Sem IX	Sports Complex	Professional Ethics
2021 - 2022	1st Year - Sem I	Domain For Cartoon Character	Gender Equity
	1st Year - Sem II	Portable Container Design	Human Values
	2nd Year - Sem III	Residential Bungalow	Human Values, Environment and sustainability
	2nd Year - Sem IV	Women's Empowerment Center	Gender Equity
	3rd Year - Sem V	Waterfront Entertainment Hub	Environment and sustainability
		Music Interpretation Center at Kolkata	Human Values
	3rd Year - Sem VI	Institute of Fine Arts and Visual Arts	Human Values
	4th Year - Sem VII	Affordable Housing	Professional Ethics, Environment and sustainability
5th Year - Sem IX	5 Star Business Hotel	Human Values	
2020 - 2021	1st Year - Sem I	Design A Space For Architectural Student With Reference To Their Requirements	Human Values




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder:
Dr. Patangrao Kadam
 M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

	1st Year - Sem II	Girgaum Chowpatty Charni Road Mumbai	Human Values
	2nd Year - Sem III	Craftsvilla-Conversations At The Edge	Environment and sustainability
	2nd Year - Sem IV	Women's Home	Human Values, Gender Equity
	3rd Year - Sem V	Cultural Centre At Bhuj	Environment and sustainability
	3rd Year - Sem VI	Ayurveda Institute And Hospital (Opd)	Environment and sustainability
	4th Year - Sem VII	Resilient Urbanity:Affordable Housing	Environment and sustainability
	5th Year - Sem IX	150 Bedded General Hospital With Single Speciality Cardio/Orthopaedic	Human Values, Gender Equity, Professional Ethics
2019 - 2020	1st Year - Sem I	Kiosk design	Human Values
	1st Year - Sem II	Kindergarten & Day Care	Gender Equity, Human Values
	2nd Year - Sem III	Bazaar Haat	Human Values, Environment and sustainability
	2nd Year - Sem IV	Ravalwadi Cultural Center	Environment and sustainability
	3rd Year - Sem V	Public Plaza At Seawood, Navi Mumbai	Professional Ethics, Human Values
	3rd Year - Sem VI	Aviation Institute & National Institute Of Fashion Technology	Professional Ethics, Human Values
		Design Institute At Belapur	Professional Ethics, Human Values, Gender Equity, Environment and sustainability
	4th Year - Sem VII	Mass Housing Project In Kharghar	Professional Ethics
	5th Year - Sem IX	Business Park At Kharghar	Professional Ethics
2018 - 2019	1st Year - Sem I	Furniture Design Mind	Gender Equity
		Mapping Emotions Mapping Of Street	Professional Ethics
	1st Year - Sem II	Workplace Cum Residence	Professional Ethics
2nd Year - Sem III	School	Human Values,	




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

			Gender Equity
2nd Year - Sem IV	Eco-Tourism Hub		Environment And Sustainability
3rd Year - Sem V	Urban Club		Gender Equity Professional Ethics
	Urban Leisure Club		Professional Ethics
3rd Year - Sem VI	Interpretation Center For Food And Culture		Professional Ethics, Human Values
4th Year - Sem VII	Housing Project On Textile Mill Land In Mumbai		Environment And Sustainability
5th Year - Sem IX	Railway Transit Hub Metro Station, Navi Mumbai		Gender Equity
			Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE,

NAVI MUMBAI

SUBJECT: ARCHITECTURAL DESIGN

YEAR: FIRST YEAR B.ARCH Semester I, Div A- 2018-19

TOPIC :

1. Furniture Design
2. Mind mapping of Emotions
3. Mapping of Street

FACULTY: Prof. Trupti Kamat, Prof. Sumitra Kadam, Visting Prof. Sumeira Kazi

1. Furniture Design

Aim: To understand anthropometrics and ergonomics for designing furniture.

Objectives

- a. To understand the scale and proportions of human body.
- b. To understand the dimensions of furniture in accordance to human scale
- c. To study various material properties and their applications

Methodology

- a. To sketch measure drawing of human body
- b. To understand the body proportions and space requirement for the various activities
- c. To make measure drawings of the furniture in their house
- d. To design a furniture piece- chair/table/storage/bed by applying knowledge of studied human body proportions and material
- e. To design a furniture piece- chair/table/storage/bed for the specially-abled persons.

Submission:

- a. Sketches of measure drawing of human body
- b. Measure drawings of the furniture
- c. Report of various furniture available and materials used for them
- d. Sheet and model to explain the design of the furniture.
- e. Sheet and model to explain the working of design of the furniture for special challenged person




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

2. Mind Mapping of Emotions

Aim: To introduce the visual tool to channelize the thoughts

Objective:

Understanding about the thought process and making Graphical representation of the same

Exploring the various ways of Abstraction

Methodology:

Discussion on difference between emotion, feeling and behavior.

Understanding the different types of mind maps

Mind map the attributes, events and feelings in the relation to the selected emotion.

Generating a model to convey the emotion through abstraction

Submission:

- a. Mind map of the selected emotion
- b. Pre final model of abstraction (300mmX300mmX300mm)
- c. Final Model



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

3. Mapping of Street

Introduction

The exercise is carried out in the areas of Navi Mumbai, to make students a bit oriented about the city in which the college resides. The active streets having some focal points defining the extents of the streets were selected. The ideology of this exercise is to introduce the students to the architecture at urban level.

Aim: To understand the dynamics of a street in relation to human scale, activities and built forms.

Objectives:

- a. Learning various techniques and methods of documenting an active street
- b. Understanding the graphical language to represent this documentation
- c. To analyze the public spaces at human and urban scales
- d. To identify the parameters causing issues on the street, and then attempt to suggest the solutions for the same.

Methodology:

- a. Discussion to understand various parameter through which the street needs to be studied
- b. Study of Google maps to generate base maps for further studies.
- c. Visit by the group of students to their allotted site at multiple timings and all week days in order to grasp the changing uses of the street
- d. Exercises to represent various layers of social fabric on paper using
 - 1) elevations and plans of streets
 - 2) sketches and photographs
 - 3) graphs and charts
- e. Analysis of above drawings to synthesize the issues of the street and propose various ideas to tackle the same.



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line and a small flourish.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Class In charge:Prof. Astha / Prof. Renuka

WORKPLACE CUM RESIDENCE

Objectives:

Understanding space requirements for various activities for small groups of people.
Understanding indoor and out door spaces created by built forms.

Design Objectives

Design of spaces suitable for the intended activity.
Design of spaces as per the behavioral needs of individuals and groups.
Design and detailing of built form and required structure with reference to methods of construction, materials and climate.

Design projects

Built and Un-built spaces for multiple activities for a small group of people.

Aim:

To understand the needs of the Professional residence & working place together.

Learning Objectives:

- Understanding context, climate and related issues
- Development of appropriate architectural forms, their grouping and composition.
Working out a fully resolved built space with respect to climate, materials, services, structural details, interiors etc.

Program Brief:

The master plan would include all the above mentioned requirements, but details have to be worked out for 1 professional activity as per the students' choice.

Site

Four sites are proposed from different climatic regions, which are as follows:

- Jodhpur, Rajasthan – Hot & dry climate
- Navi Mumbai, Maharashtra – Hot & Humid
- Manali, Himachal Pradesh – Cold & dry
- Varanasi – Composite climate

The Site area would be approx. 500sqm.

Parking

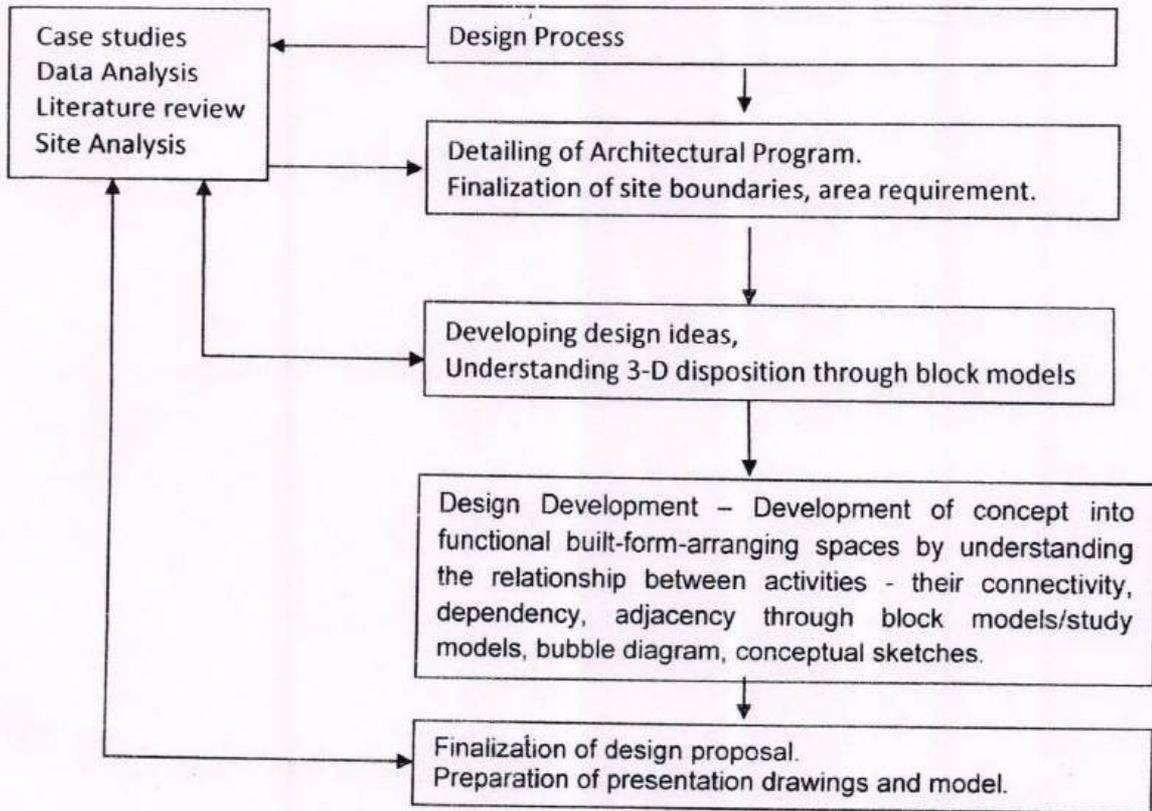
Parking should be provided as per the requirement for four wheeler and two wheeler.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Class In charge:Prof. Astha / Prof. Renuka

Methodology:



Studio Schedule:

Sr.No.	Date	Activity	Deliverables
1		Introduction to assignment	Studies related to the user groups and their behavior and need
2		Case study presentation	
3		Site introduction	
4		Site study	Site Analysis
5		Conceptual sketches	Design Concept Design process
6		Design development- 1-	Zoning layout, single line plan, volumetric study



(Handwritten signature)

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Class In charge: Prof. Astha / Prof. Renuka

			with block model
7		Design development- 2-	Site Plan, Detailed Floor Plans, Elevations /Sections
8		Pre-final: All Plans, Elevations and Sections, Façade detailing, Structural system, Views	
9		Final – Completed Portfolio (rendered) with model to 1:500/1:200/1:100(on the day of jury)	

Key References:

Sr. no:	Books	Author
1	Space planning basics	Mark Karlen
2	Golden ratio	Mario Livio
3	Ritualistic pathway projects	Charles Correa
5	Theme landscape +design	
6	www.achitizer.com	
7	Timeless way of building	Christopher Alexander
8	Site analysis	Edward White
9	Minimalist architecture	Franco Bertoni
10	Time saver Standards for Building Types	Joseph De Chiara
11	Climate responsive architecture: A Design Handbook for Energy Efficient Buildings	Arvind Krishan , Nick Baker , Simos Yannas , Steve Szokolay
12	Landscape planning:Dimensions, Elements, Typologies	Astrid Zimmermann

[Handwritten signature]



[Handwritten signature]

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Class In charge:Prof. Astha / Prof. Renuka

Evaluation Criteria:

The evaluation comprises of **60% progressive** and **30% final portfolio** of finished drawings and **10% of Attendance**.

The Progressive marking comprises of following heads: (60-70%)

– Observation – students capability of handling the project, consistency, efforts, experimentation, innovative thoughts, process adopted, research done, understanding, utilization of contact session fruitfully, participation in discussions, completion of work on time.

- Periodic/Stage wise marking as per the schedule given

For Stage wise marking- Mock-up juries or individual marking by the guide.



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line and a small flourish.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

SCHOOLINTRODUCTION:

Waldorf education was developed by Rudolf Steiner (1861-1925) at the beginning of the 20th century. It is based on Steiner's broader philosophy and teachings, called anthroposophy (literally, wisdom or knowledge of man). Its pedagogy emphasizes the role of imagination in learning, striving to integrate the intellectual, practical, and artistic development of pupils in a holistic manner.

Waldorf or Rudolf Steiner education is a unique form of education from preschool through high school, which is based on the view that the human being is a being of body, soul and spirit. Steiner's division of child development into three major stages is reflected in the schools' approach:

- Early childhood education focuses on practical, hands-on activities and creative play.
- Elementary education focuses on developing artistic expression and social capacities, and
- Secondary education focuses on developing critical reasoning and empathic understanding.

In the lower grades in elementary school, this leads over to more of a stress on using artistic elements in different forms (rhythm, movement, color, form, recitation, song, music), not primarily as a means of personal self expression, but as a means to learn to understand and relate to the world, building an understanding for different subjects out of what is beautiful in the world in the broadest sense of the word.

And in the upper grades and high school, this leads in steps to an ever more conscious cultivation of an observing, reflecting and experimental scientific attitude to the world, focusing on building an understanding of what is true, based on personal experience, thinking and judgment.

DESIGN AIM:

To design a school based on philosophical and theoretical teaching methods used in Waldorf oriented teaching methodology.

DESIGN OBJECTIVE:

- To understand the context and character of Institution placed outskirts.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- To understand the relationship between building and environment, built and un-built spaces within the structure and outside.
- To create spaces based on different age groups and concentrate on ergonomics of the users.

SITE:

Site selected in Panvel (Sangruli) & at Khalapur.

TENTATIVE PROGRAM BRIEF:

DESIGN REQUIREMENT

Classroom:

- Classrooms for Primary (1st-5th standard) – 5 Nos.
- Classrooms for Upper Primary (6th-8th)- 3Nos.
- Classrooms for Secondary (9th-10th) – 2Nos.
- Toilet for students and Staff

Administration:

- Principal's cabin with attached Toilet and Waiting Area- 35 Sq m
- Public Relation officer, accounting staff -2Nos. Administrative work staff: 2 Nos. & Peon:4 Nos. – 50 sq mt.

Staffroom:

Staffroom with Toilet (15Nos) . Store room & Place for Visiting staff (3 Nos.)– 50 sq mt

Workshop: (Open & Semi-open spaces)

Workshop area – 2 Nos.

Studio -2 Nos.

(Dance, Music, Art, Carpentry, Painting etc.)-400 Sq mt.

Library- 150 sq mt.

Laboratory with wash area - 3 nos. -200 sq mt.

Canteen with Kitchen and Toilet -150 sq mt.

Parking for staff – 6 cars, 12 two wheelers

Parking for visitors- 6 cars, 24 two-wheeler

Parking for Bus – 2 Bus

Parking for Non teaching staff & Students- 50 bicycles

Assembly Hall

Playground for various activities





Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

SCHEDULE FOR MARKING

Dates	STUDIO PROGRAM	Model	Marks
	June		
	Case Study		5
	JULY		
13/07/2018	Introduction to Site and Program, and Site Analysis with Findings	Site Model	5
17/07/2018	Discussion on Conceptual Sketches + <i>site Analysis</i> .		
20/07/2018	Discussion on Conceptual Sketches / Form formulation		
24/07/2018	concept finalization & Preliminary Site planning	Model	5
27/07/2018	Design Review-1 - Floor Plans/ Layout		
31/07/2018	Design Review-1 - Floor Plans/ Layout		
	AUGUST		
3/8/2018	Design Review-1 - Floor Plans/ Layout		
7/8/2018	Design Review-1 - Floor Plans/ Layout		15
10/8/2018	Design Review-2 - Double Line Plans & Sections		
14/8/2018	Design Review-2 - Double Line Plans & Sections		
17/8/2018	Design Review-2 - Double Line Plans & Sections		
21/8/2018	HOLIDAY		
28/8/2018	Design Review-2 - Double Line Plans & Sections		
31/8/2018	Design Review-2 - Double Line Plans & Sections	Model	15
	SEPTEMBER		
4/9/2018	Design Review-3 - Final plans-Elevations-Sections		
7/9/2018	Design Review-3 - Final plans-Elevations-Sections		
11/9/2018	Design Review-3 - Final plans-Elevations-Sections	Model	15
14/9/2018	Discussion for changes		
18/9/2018	Discussion for changes		
21/9/2018	HOLIDAY		
25/9/2018	Pre final jury on Tracings with all study Model	Model	15
28/9/2018	Discussion		
5/10/2018	Final Portfolio work		25



(Signature)

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

DELIVERABLES:

Deliverables: All in A1 sheet (No sheet sizes should vary)		
Plans:		
	Roof Plan / Site Plan	1:200
	Site Sections / Elevations- 2 nos	1:200
	Ground Floor Plan	1:100
	First Floor/ Mezzanine Floor plan	1:100
	Sections and Elevations (4 sides minimum)	1:100
	Views - Internal & External	
	Model	1:200
	Study Models	As in class



A handwritten signature in blue ink, appearing to be 'U. D.' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture
Architectural Design Brief
2nd Year 'B' - Semester IV
Eco-tourism Hub

Introduction

Ecotourism is a form of tourism involving visiting fragile, pristine, and relatively undisturbed natural areas, intended as a low-impact and often small-scale alternative to standard commercial mass tourism. It means responsible travel to natural areas, conserving the environment, and improving the well being of the local people. Its purpose may be to educate the traveler, to provide funds for ecological conservation, to directly benefit the economic development and political empowerment of local communities, or to foster respect for different cultures and for human rights. It focuses on socially responsible travel, personal growth, and environmental sustainability. Ecotourism typically involves travel to destinations where flora, fauna, and cultural heritage are the primary attractions.

Eco tourism Hub creates a cultural hub point, which gives a platform for the villagers as well as the essence of the vernacular for the tourist. The brief of this semester design studio is to design an eco-tourism hub for the region in the proximity of Bhaja Caves keeping in mind the local traditions, culture, art and Architecture. The design brief puts an emphasis on the articulation of said traditions and their interpretation in modern times without losing the essence of the vernacularism.

Bhaja Caves is a group of 22 rock-cut caves dating back to the 2nd century BC located near the city of Pune, India. The caves are 400 feet above the village of Bhaja, on an important ancient trade route running from the Arabian Sea eastward into the Deccan Plateau (the division between North India and South India). The terrain of the region is hilly, ranging from gentle slopes to steep and rugged hillsides. The hills are covered with lush forestland, rich in various species of flora and fauna. Along with Bhaja caves, the closely located Lohgad and Visapur forts attract tourists for treks, and the footfall is increasing annually.

Design Requirement

Three sites have been selected in the region to design, and each student has been given the opportunity to choose his or her own site out of the three. The site will be developed with different types of components based on an individual's area programme:

- Reception & lounge.
- Administration.
- Museum/Exhibition galleries: To reflect the region's culture and tradition and also to promote their legacy.
- Weekly markets for the villagers, craft or souvenir shops. The market can run once in a week where the villagers can also sell organic crops or vegetables.
- Workshop activities: where the tourists and villagers can learn from one another. The villagers can showcase their skills and even export their talents.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- Accommodation unit (home stay) for the tourists.
- Information Centre cum Library: It will provide a better exposure for the young generation of the surrounding villages.
- O.A.T: for cultural programs and festivals.
- Landscaping/farming activity.
- Restaurant/Café.

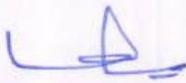
Design Regulations to be followed are:

- Maximum ground coverage – 30%
- Maximum FAR – 0.75
- Maximum height – 15 m
- Parking: 2 ECS (Equivalent car space) per 100 sq. m. of Built-up area.
- Minimum front setback – 4.5 m wide
- Minimum side and rear open space – 3.0 m wide
- Toilet Requirements:

Sl. No.	Sanitary Unit	For Public		For Staff	
		Male	Female	Male	Female
1	Water Closet (W.C.)	One for 200 persons upto 400 persons. For over 400 persons, add at the rate of 1 per 250 persons or part thereof	Four for 100 persons upto 200 persons. For over 200 persons, add at the rate of 1 per 50 persons or part thereof	One for 1-15 persons. Two for 16-35 persons.	Two for 1-12 persons. Four for 13-25 persons, add at the rate of 1 per 6 persons.
2	Ablution Taps	One in each W.C.	One in each W.C.	One in each W.C	One in each W.C
3	Urinals	One for 50 persons or part thereof	--	Nil upto 6 persons One for 7-20 persons Two for 21-45 persons	--
4	Wash Basins	One for every 200 persons or part thereof. For over 400 persons, add at the rate of 1 per 250 persons or part thereof.	One for every 200 persons or part thereof. For over 200 persons, add at the rate of 1 per 150 persons or part thereof	One for 1-15 persons Two for 16-35	One for 1-12 persons Two for 13-25 persons
5	Cleaner's Sink	One per floor, minimum			
6	Drinking Water Fountain	One per 100 persons or part thereof			
7	Shower/Bath	As per trade requirements			

Design Process

- Case studies of various tourist interpretation centers, museums, exhibition galleries, heritage monuments/historic sites with tourism activity, art workshops etc. And detailed study of the vernacular architecture of Maharashtra.
- Thematic study of the region (Bhaja village and surroundings) to understand the current tourist influx as well as the cultural traits of the region.


 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

- Site analysis and framing the area requirements with reference to the case study, thematic study and design standards.
- Conceptual design and zoning of the spaces.
- Drawings, models and other deliverables required explaining the design.

Deliverables

- Site analysis and zoning (1:200/1:500)
- Concept and concept model
- Leaflet/Pamphlet
- Site plan (1:200)
- Site sections (Min. 2) (scale 1:200)
- Detailed Site model
- Roof plan (1:200)
- Individual block plans (scale 1:100)
- Section and elevations (Min. 2 each) (Scale 1:100)
- Views 6 minimum
- Construction details 5 min
- Services details (rain water harvesting, solar paneling, drainage details)
- Block model

Design faculty
2nd Year 'B'

- Neha Pradhan - *Pradhan*



[Signature]
Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture,

Kharghar, Navi Mumbai

Semester-V | Third Year B.Arch | 2018-2019

Subject: Architectural Design

Windows by the Creek | Concept Based Design Development

Urban Leisure Club | T.Y.B.Arch('A') | BVCOA

Faculty: Prof. Indrajit Burman | Prof. Gulshan Kumar Sharma | Prof. Madhura Naik

Introduction:

In an ever-changing world, leisure remains a space and an activity that is assumed to be good for people. To understand the role of leisure one must dabble into understanding the Work-life balance. Leisure has been described as a coping resource and a coping strategy that has strong active and passive components. Leisure provides rest and relaxation to our mind and body. To turn one's mind to something else that one enjoys doing is a happy end to a day's work. One can easily forget the tension and the pressure at the place of work and divert the mind in a creative and constructive manner.

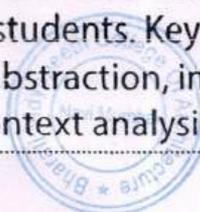
There are various ways of spending the leisure time. Leisure activities undertaken in nature are immensely popular. The importance of spending time in interacting with nature to other leisure activities in terms of recovery from work demands. Nature is everywhere and it affects everything; it initiates life in the creatures. One of the important solutions for design, whether in architecture or other arts and sciences has been modeling and imitating nature. Solving several problems in architecture is through the innovative solutions; the models inspired by nature can cause creativity and innovation in the architect's mind. The transition from nature to architecture is a logical process because the natural models have provided the best type of adaptation under a variety of conditions over the years.

Theme:

Design looking to biology as an approach is where designers identify a human need or design problem and they seek the solutions in nature and organisms. This approach is used when designers are confident about the aims of their designs.

Architectural concepts are the designers way of responding to the design situation presented to them. They are a means of translating the non-physical design problem into the physical building product.

This design problem aims at introduction of a tops-down approach towards design through the introduction of concept based design development process to students. Key elements of the entire process is clarity of the concept of abstraction, implementation of the conceptualized theory and user/context analysis.



URBAN CLUB

In today's fast urbanizing society, social interaction is restricted due to lack of time or heterogeneity of migratory population. Building vertically in urban areas forces the gap or distance between people and earth or nature. Also the role of recreation as tool to heal and rejuvenate from the urban and lifestyle stresses cannot be undermined. The club is the much needed glue to create social integration in common space. The design of this club must extend beyond the evident facilities and must promote interaction as well as create ample opportunities to connect with nature, that facilitates both personal well being and community activities which is the basis for the design assignment.

Aim:

To understand the leisure needs of the urban communities and the facilities for a CLUB as a public amenity at the nodal level. Amidst the urban setup, it's larger roles to be understood as architectural landmark and public amenity as well.

Learning Objectives:

- To evolve site responsive design as component of the contextual urban infrastructure.
- Understanding and preparing a programmatic brief
- Understanding context, climate and related issues
- Stimulating thought process and conceptual abilities through models and sketches
- Development of appropriate architectural forms, their grouping and composition: Working out a fully resolved building with respect to materials, services, transportation, structural details, interiors etc.

The programme:

The Urban club caters to the population of different ages, gender, culture and status. The programme therefore should be suitable to all kind of individuals and the groups. Following is the basic list of requirements, which has to be addressed by the students and can be added on to some extent:

- a. Swimming Pool of approx. 450 sqm. with all its ancillary facilities like changing rooms, showers, toilets, lockers etc, for nearly 100 persons at peak time.
- b. Indoor Games with all the ancillary facilities like lobbies, changing rooms, toilets, spectator areas etc.
 - Squash Rooms = 2 nos.
 - Billiard tables = 2 nos.
 - Snooker / Pool tables = 2 nos.
 - Table Tennis = 2 nos.
 - Badminton Court = 2 nos.
 - Bowling Alley = 1 no.
 - Board game room equivalent to multipurpose space of 80-100 persons gathering.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- c. Outdoor Games with the amenities needed:
- Lawn Tennis Courts = 2 nos.
 - Net Cricket Pitches = 2 nos.
 - Basket Ball court = 1 no.
 - Street Soccer = 1 no.
- d. Children's Activity Lounge for approx. 25-30 children
- e. Gymnasium with changing rooms/ toilets/and other areas...approx 150 sm
- f. SPA with Sauna, Steam and Massage areas along with ancillary facilities:
- Sauna -5 seater
 - Steam-5 seater
 - Massage – 2 tables
- g. Community Library for 5000 volumes of books, magazines, newspapers all inclusive and 25 persons seating.
- h. Hobby room or multipurpose small group activities rooms of approx. 50 sm – 2 nos.
- i. Banquet Hall 150-180 capacity with prefunction areas, green rooms, dining area, toilets etc.
- j. Guest dormitories – 10 bedded each 4 nos. with ancillary areas.
- k. Restaurant 40-50 seating capacity with central kitchen.
- l. Café- 40 seating capacity
- m. Juice bar 12-15 seating capacity
- n. Discotheque 25-30 users at a time
- o. Amphitheatre 200- 250 seating capacity
- p. Administrative areas as required
- q. Parking facilities needed as per norms
- r. Landscape areas for gardens and other outdoor activities.

Note: Students need to work out the ancillary spaces and areas needed for above requirements as per the standards and the case studies.

Site

The students have to select any one site out of three site chosen in Navi Mumbai. Two of the sites are located in Kharghar sector 11 and 15. The third site is redevelopment of NMSA site. Approximate area of all the sites is 6 acres.



A handwritten signature in blue ink, appearing to be 'L. D.' with a horizontal line underneath.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Key References:

Sr. no:	Books	Author
1	Space planning basics	Mark Karlen
2	Golden ratio	Mario Livio
3	Ritualistic pathway projects	Charles Correa
4	Public buildings	
5	Theme landscape +design	
6	www.achitizer.com	
7	Timeless way of building	Christopher Alexander
8	Site analysis	Edward White
9	Minimalist architecture	Franco Bertoni
10	Time saver Standards for Building Types	Joseph De Chiara
11	Climate responsive architecture: A Design Handbook for Energy Efficient Buildings	Arvind Krishan , Nick Baker , Simos Yannas , Steve Szokolay
12	Landscape planning: Dimensions, Elements, Typologies	Astrid Zimmermann
13.	Buildings for Tomorrow	Paul Catterman

Evaluation Criteria:

The evaluation comprises of 60% progressive and 30% final portfolio of finished drawings and 10% of Attendance.

The Progressive marking comprises of following heads: (60%)

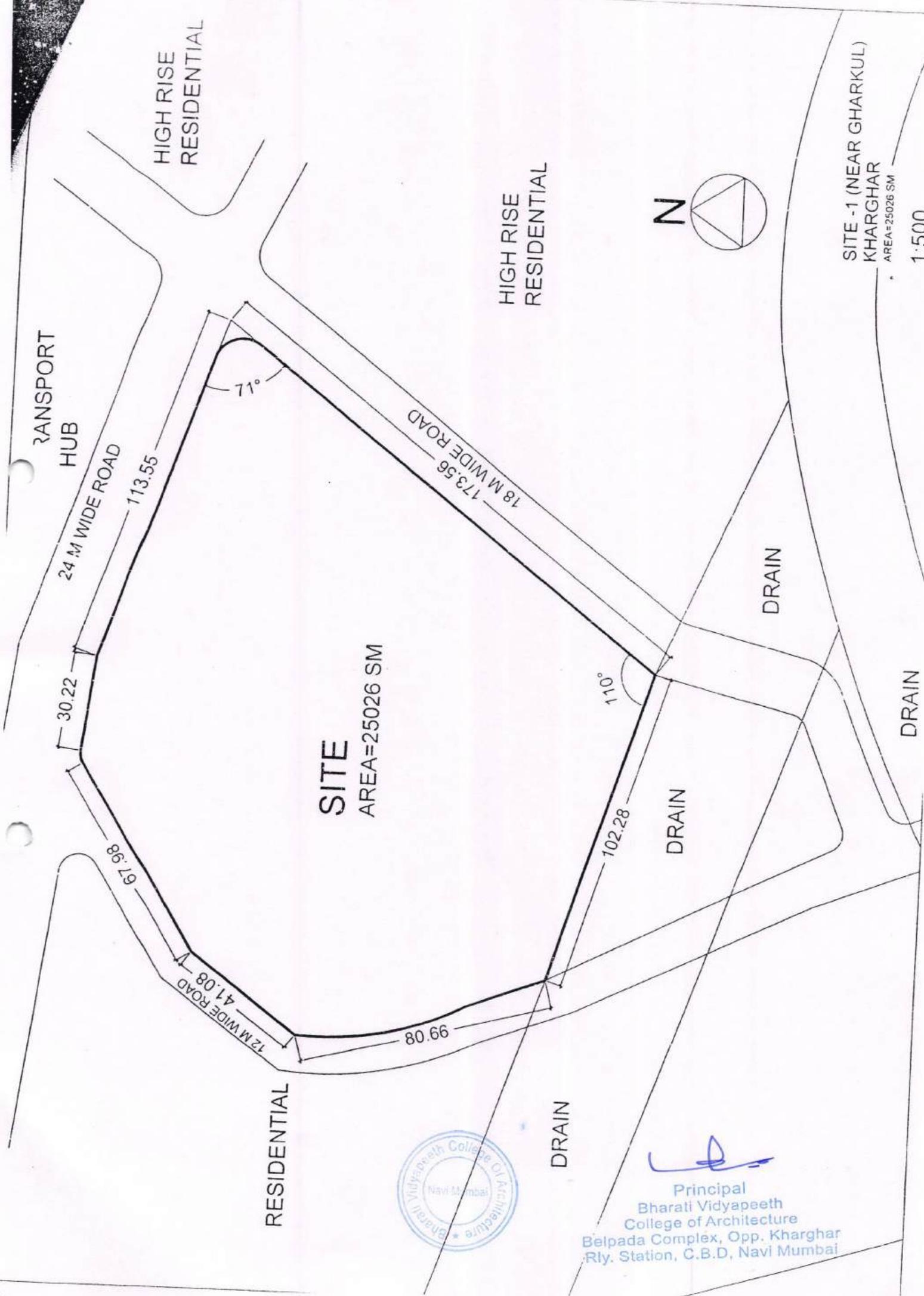
- Observation – students capability of handling the project, consistency, efforts, experimentation, innovative thoughts, process adopted, research done, understanding, utilization of contact session fruitfully, participation in discussions, completion of work on time.

- Periodic/Stage wise marking as per the schedule given

For Stage wise marking- Mock-up juries or individual marking by the guide.

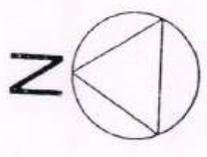


Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



SITE -1 (NEAR GHARKUL)
 KHARGHAR
 AREA=25026 SM

1:500



SITE
 AREA=25026 SM

TRANSPORT
 HUB

HIGH RISE
 RESIDENTIAL

HIGH RISE
 RESIDENTIAL

DRAIN

DRAIN

DRAIN

RESIDENTIAL

DRAIN



[Signature]
 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

SCHOOL

HIGHT SE
RESIDENTIAL

HOSPITAL

18 M WIDE ROAD
158.42

LOW RISE
RESIDENTIAL

GARDEN
83.70

LOW RISE
RESIDENTIAL

SITE
AREA=25205 SM

163.38



90°

90°

23.59

57.10

GROUND

LOW RISE
RESIDENTIAL

86.56

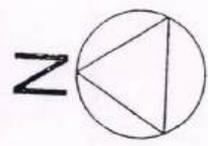
[Signature]

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

90°

83.93

TREE BUFFER



SITE -2 (NMSA)
VASHI
AREA=25205 SM

HIGHWAY

1:500

HIGH RISE
RESIDENTIAL

24 M WIDE ROAD

133.50

107.00

90°

90°

LOW RISE
RESIDENTIAL

18 M WIDE ROAD

66.65

SCHOOL

98.30

WATER
TREATMENT
PLANT

SITE
AREA=24995 SM

90°

154.00

90°

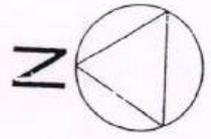
113.50

GARDEN
PLOT

HIGH RISE
RESIDENTIAL

TRANSPORT
HUB

18 M WIDE ROAD



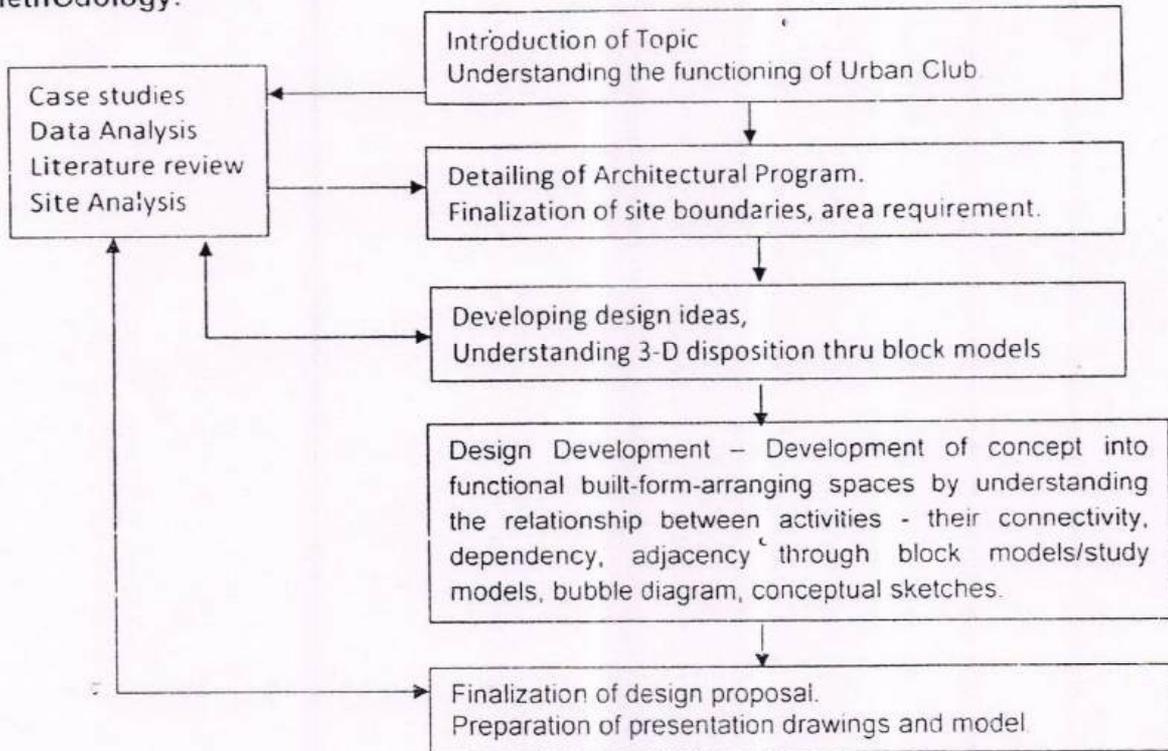
SITE -3 (NEAR D-MART)
KHARGHAR
AREA=24995 SM

1:500



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Nav Mumbai

Methodology:



Deliverables:

- o Studies related to leisure activities in urban context for all the user groups
- o Site understanding and Analysis
- o Design Concept and support sketches and model
- o Drawings:
 - a) Site plan with ground floor plan: 1:500/ 1:250
 - b) Site Sections/ Site Elevations: 1:500/ 1:250
 - c) Ground floor plan: 1:200/1:100
 - d) Other floor plan: 1:200/1:100
 - e) Roof Plan: 1:200/1:100
 - f) Sections, Elevations and Views
- o Study Models and Final detail model

Working / Marking Schedule:

- o Case Studies 22 – 29th June 2018
- o Site introduction and Site visit 20th July 2018
- o Site analysis and Concept 3rd – 7th August 2018
- o Design development -1 24-28th August 2018
- o Design development -2 7-11th September 2018
- o Pre-final marking 21-25th September 2018
- o Final submission 5th October 2018



(Handwritten signature)

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar

Prof. K Thomas, Tejaswini H.M, Himika Lakhanpuria, Shomika Sarkar

3rd Year Architectural Design Studio

Sem 5, June 18- Oct- 18

Working Title: Urban Club,

Introductory Notes

Historically, public open air meeting places stretches back to Agora in ancient Greece which served as meeting and market place. But from the 6th century B.C. colonnaded hall called Stoa were built as public spaces to serve the various functions held at the agoras. Later Town Halls were also built on the agora.

Site

Navi Mumbai, located in the eastern trans-harbour of Mumbai, Maharashtra, is one of the world's largest planned townships. Navi Mumbai has become a major metropolitan city in the past 3 decades. It caters to various infrastructure services to urban population with better and bigger facilities.

Location: CBD BELAPUR

Basic List of Areas

Plot Area- ^{9.71} ~~6.8~~ Acres

F.S.I - 1

Amenity open spaces: 70 % plot area includes the following:

1. Plazas/ Pavilions / entrance gateways (character, sizes and shapes to be decided by student)
2. Promenade and viewing decks
3.
4. Amphitheatre- Open sitting area: 350- 400 pax (Provision for installing projectors 20 sq. m,
5. Theme Gardens and appropriate no. of Parking

Space for hobby activities

✓ Gymnasium

✓ Wellness, gym and spa

✓ Bar and lounge area/ discotheque or dance space

Indoor sports: squash billiard, snooker, carom, bowling alley, table tennis, Badminton and all other board games, ~~card room~~

Outdoor sports: tennis, football ground, basket ball, swimming pool, skating rink

Café restaurant

Community Library- general reading space.

Banquet hall with residential facilities.(20-30 rooms)

Multipurpose halls (2)

Ar. Tejaswini H.M.
Tejaswini



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Infrastructure Facilities

1. Club Management Centre
2. Press Lounge
3. VIP lounges
4. Technical Facilities such as Plant room, electric substation, electric power backup system, Fire safety arrangements etc.
5. Information kiosk
6. Public convenience
7. Stationary shop
8. First aid facilities
9. Security office
10. Storage Complex and locker facilities
11. Toilets as per requirements

Learning objectives

- Understanding and preparing a programmatic brief
- Understanding context, climate and related issues
- Stimulating thought process and conceptual abilities through models and sketches
- Development of appropriate architectural forms, their grouping and composition
- Working out a fully resolved building with respect to services, details, interiors etc.
- To design a building that forms a component of the contextual urban infrastructure.
- To understand and apply basic building byelaws.
- Improving drawing, model making and presentation skills.

Drawing Scheme

- Site Analysis
 - Design Concept
 - Design process
 - Plans :
- a) Roof plan/ site plan: 1:1000/ 1:500
 - b) Site plan: 1:500
 - c) Site sections elevations: 1:500
 - d) Ground floor plan: 1:250
 - e) First floor plan: 1:250
 - f) Site Sections/ Site Elevations: 1:250
 - g) Views/ details
 - h) Model 1:500/1:250

Notes:




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

The assessment will be more oriented towards the design process followed by the student rather than the final product.

However an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.

All reviews carry equal marks. Markings will not be upgraded or changed once the review date has passed. Considerable weightage of marks are for punctuality overall involvement and attendance.



A handwritten signature in blue ink, consisting of a stylized 'L' shape followed by a horizontal line that ends in an arrowhead pointing to the right.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

SECTOR-12
HOLDING POND

39300 SQ.M.
9.71 acres

SECTOR-13

12.5 M. WIDE ROAD



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar

Prof. K. Thomas, Prof. Tejaswini H.M., Prof. Anushri Sardeshpande, Prof. Himika Lakhanpuria,

3rd Year Architectural Design Studio

Sem 6, Nov 18- April- 19

Title: INTREPRETATION CENTRE FOR FOOD AND CULTURE

Introductory Notes

The concept of culture is broader than race or ethnicity. It also encompasses language, communication styles, social values, and religious behaviors. Culture shapes how people view the world, their attitudes about health, and their food preferences.

Food is central to the cultural and religious practices of most communities. For this reason, understanding and appreciating the food and food practices of another culture is part of building your own cultural competence.

Site

Navi Mumbai, located in the eastern trans-harbour of Mumbai, Maharashtra, is one of the world's largest planned townships. Navi Mumbai has become a major metropolitan city in the past 3 decades. It caters to various infrastructure services to urban population with better and bigger facilities.

Location: Nerul, Karave

Basic List of Areas

Plot Area- 15 Acres

F.S.I- 1

Amenity open spaces: 50 % plot area includes the following:

1. Plazas/ Pavilions / entrance gateways (character, sizes and shapes to be decided by student)
2. Appropriate no. of Parking.
3. Open exhibition/display areas/ amphitheatre.

Tejaswini H.M.
CA-Tejaswini H.M.)



A handwritten signature in blue ink, likely of the Principal, located above the official stamp.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

AREA PROGRAMME:

Activities in Interpretation centre:

Museum
Demo Kitchen
Kitchen
Tasting areas
Audiovisual Room
Exhibition halls (ac/ non ac halls)
Library
Auditorium / Amphitheatre
Workshop Areas

Miscellaneous:

Reception space, Enquiry Desk, fee counter
Administrative offices, Director's cabin, Conference room

Leisure Activities:

Cafeteria/ Food Court
Shops

Infrastructure Facilities

1. Technical Facilities such as Plant room, electric substation, electric power backup system, Fire safety arrangements etc.
2. Toilets as per requirements

Learning objectives

- Understanding and preparing a programmatic brief.
- Understanding context, climate and related issues.
- Stimulating thought process and conceptual abilities through models and sketches.
- Development of appropriate architectural forms, their grouping and composition.
- Working out a fully resolved building with respect to services, details, interiors etc.
- To design a building that forms a component of the contextual urban infrastructure.
- To understand and apply basic building byelaws.
- Improving drawing, model making and presentation skills.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Drawing Scheme

- o Site Analysis
 - o Design Concept
 - o Design process
 - o Plans :
- a) Roof plan/ site plan: 1:1000/ 1:500
 - b) Site plan: 1:500
 - c) Site sections elevations: 1:500
 - d) Ground floor plan: 1:250
 - e) First floor plan: 1:250
 - f) Site Sections/ Site Elevations: 1:250
 - g) Views/ details
 - h) Model 1:500/1:250

Notes:

The assessment will be more oriented towards the design process followed by the student rather than the final product.

However an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.

All reviews carry equal marks. Markings will not be upgraded or changed once the review date has passed. Considerable weightage of marks are for punctuality overall involvement and attendance.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Khagghar
Rly. Station, C.B.D, Navi Mumbai

AREA : 15 ACRES
PERIMETER 1013.88 M

LOCATION :
NERUL-KARAVE.

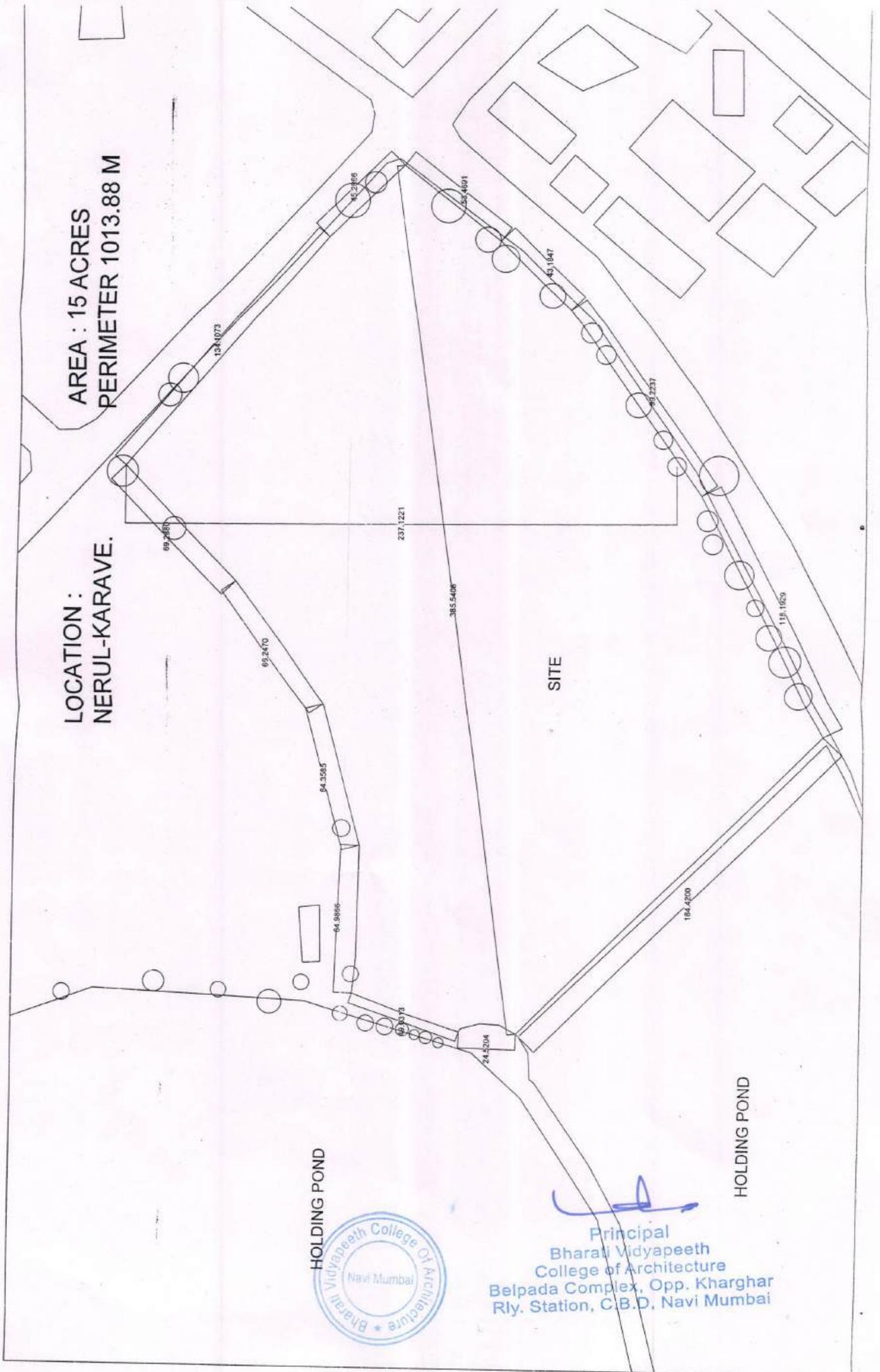
SITE

HOLDING POND

HOLDING POND



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Housing project on Textile Mill land in Mumbai

Learning Objectives:

- To acquire a comprehensive and organized knowledge of various typologies of housing.
- To understand the spatial implications of cultural and social aspects of community living.
- Learning of physical and psychological need of the communities, based on their occupation, economic status, gender, age, religion, social status etc and application of it in spatial context.
- To understand different materials and construction techniques adopted in mass housing projects.
- To understand and workout the ancillary requirements and areas through the research and analysis of the above points and case studies.
- To design the complex with response to the implications and limitations of site and bye laws.
- To understand the specialized services required in the complex.
- To achieve a climate responsive design with respect to the site context.

Introduction:

Housing, being the basic need of a human being, all the layers of the society need to be catered. In a metropolis like Mumbai, 60% of the population is living in slums, as the housing stock available in the market is not affordable for them. There are around 4.8 lakh tenements in Mumbai which are unsold due to very high prices. At the same time almost equal no. of people are homeless. There is a huge gap between demand and supply. So there is a need to focus on the affordable housing for low income group. Also there are lot of dilapidated structures in island city that haven't yet undergone for redevelopment due to various reasons (e.g.- BDD chawls). Now there are chances of redevelopment of such structures. So there will be high demand of transit tenements. MHADA is a government Authority responsible for both - construction of low cost housing and transit tenements.

In Mumbai, scarcity of land due to different reasons like geographical limitations, locked land parcels due to slums, defunct Mill lands and defunct dock lands is one of the major problems and needs to be solved by recycling of land. Some provisions are made in DCR 1991 regarding redevelopment of mill lands in rule no. 58 .As per that when any mill land goes for redevelopment, the total area of plot gets divided into three parts- one part needs to be handed over to MCGM for development of open space, one part goes to MHADA for development of affordable housing and one part remains with the owner where he can construct residential/ commercial complex.

The site selected for the project is one of the defunct mill land in island city- India United Mill No. 1 at Parel admeasuring around 19 acres.



A handwritten signature in blue ink, appearing to be "U. D.", written over the printed name of the Principal.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Navi Mumbai

4th Year B. Arch. – A

Architectural Design- VII

Year 2018- 19

Faculty : Prof. Harshada Ponshe, Prof. Anushree D., Ar. Ankur Shetye, Ar. Kashyap Tidke

Program Brief:

Proposed site-

The site for the project is INDIA UNITED MILL NO. 1 owned by NTC (National Textile Corporation) located at Parel measuring around 19 acres

Design Problem 1-

Sub division of Mill land plot into three parts (1/3 rd part for MHADA, 1/3 rd for MCGM and 1/3rd for owner) based on -

1. The provisions in DCR (2034)
2. Provisions in Development Plan (any reservations, proposed roads etc.)
3. Site analysis – location, surroundings, existing features on and around site (water bodies, structures, flyovers, bridges etc.)

Design Problem 2-

To design a housing complex on a plot allotted to MHADA for construction of housing for mill workers and transit tenements

- Gross plot area - @ 83000 Sq. m.
- FSI- 4.0 (To be calculated on gross plot area)
- 60% of FSI to be consumed for LIG , remaining 40 % can be used for MIG
- Tenement density- 300-450/ Ha.
- Min. Carpet area of single tenement for LIG, MIG- 30.0sq. m., 55- 60 SQ.MSq.m..
- Carpet area of single tenement for HIG- 70-75.00 sq. m

Provision of internal roads in the layout, parking areas, Recreational open spaces, side/front margins, Building heights, Min .room dimensions , staircases, lifts etc. needs to be provided in accordance with DRAFT DEVELOPMENT CONTROL AND PROMOTION REGULATIONS-2034 for GREATER MUMBAI

Note- Site boundary may vary from person to person as it will be based on Design problem 1 (Sub- division of Plot of India United mill no. 1)

Recommended Readings

1. An introduction to Urban Housing Design
2. At Home in the City- by Graham Towers
3. New Urban Housing- by Hilary French
4. The Architecture of Affordable Housing- by Sam Davis

H. P. Ponshe

(Harshada Ponshe)



Principal

Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH,

COLLEGE OF ARCHITECTURE, NAVI MUMBAI.

SUBJECT : ARCHITECTURAL DESIGN

YEAR: 5th YEAR B.ARCH(A)

TOPIC: RAILWAY TRANSIT HUB.

SEM : 9 A Y / 2018-19

DESIGN BRIEF

Introduction:

Transit systems are of great value to the development and functionality of urban areas. A great emphasis is needed on commuter convenience and well being. Transportation architecture is being focused on to enlighten the spirit of urbanism. It is therefore important for transit systems in our country to evolve in the right direction to keep pace with the pursuit of growth and fulfill the broader vision of our commuting population.

Commute is the most crucial requirement for the dynamics of growth of the city. An easy and good commute not only reduces the travel time but also helps in increasing efficiency of people at work and their good social life. Good public transportation system plays very important role for the growth and development of any city. Sustainable transportation is the need of the day with the emphasis on the commuter convenience and well being.

Navi Mumbai is based on polycentric pattern of planning and there is currently a heterogeneous mix of motorbike, buses, scooter, cars and rickshaws jostling together on the roads.

Metro is one of the solutions which is proposed to handle the growing city population of commuters and growing city needs which intends to release the pressure on existing systems in line with the inter modal connectivity across the city.

Aim:

To design a Terminal Metro station considering the dynamics of its urban context. The aim should be to facilitate intermodal transport and become a prominent place for the inhabitants and positive space for the city.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

sign Objective:

To plan spaces with a sense of scale, structure, identity and character.

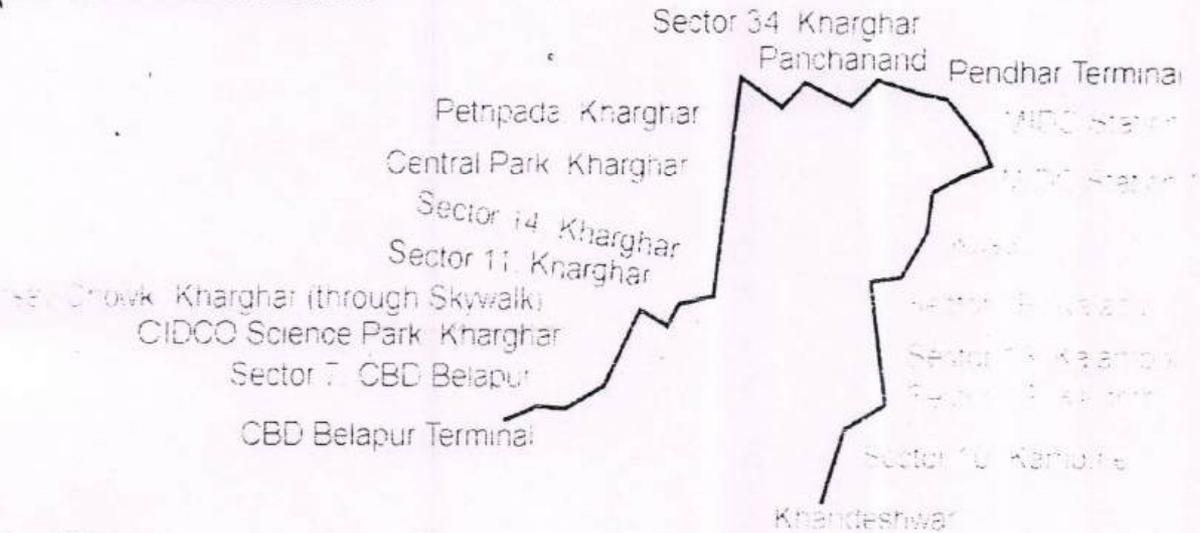
To design with functional parameters, user patterns, interrelationship, flow and transition of spaces

To understand and develop a climate responsive design

To design for the required services and safety for the users

To design for the open areas, public amenities and the landscape at urban level.

Navi Mumbai Metro Line 1



First Phase

Second Phase



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

DESIGN REQUIREMENT:

1) ENTRY LEVEL:

- a) Parking
 - i) Car Parking
 - ii) Two wheeler Parking
 - iii) Cycle Parking
 - iv) Bus Stand
 - v) Rickshaw / Taxi Stand
- b) Convenient shopping
- c) Landscape Area and Public Plaza
- d) Restaurants (4 No.)
- e) Crèche

2) CONCOURSE LEVEL:

- a) Information Kiosk
- b) Ticketing Counter (4 no)
- c) Waiting Area
- d) Convenient Shop (10 no)
- e) Food Plaza (6 no.)
- f) Drinking Water facility
- g) Toilet
- h) Bank ATM (4 No.)
- i) Travel Agents (2 No)
-
- j) Controller Room
- k) Administrative Office
- l) Staff Welfare Center
- m) Police Booth (1 No.)
- n) Courier Service (2 No.)
- o) Health Center (1 No.)
- p) NGO Office (4 No.)
- q) Services (Rain Water/ Fire Fighting/ Waste Water)

3) PLATFORM LEVEL:

- a) Basic waiting Facility
- b) Viaduct
- c) Services for vertical transportation
- d) Signage / Indicators

All facilities has to be Universally accessible and proper circulation has to be provided.
Any other requirement which one feel suitable to be provided.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH

COLLEGE OF ARCHITECTURE, NAVI MUMBAI.

SUBJECT : ARCHITECTURAL DESIGN

YEAR: 5th YEAR B.ARCH (C)

TOPIC : METRO STATION @ NAVI MUMBAI

SEM : 9

A Y / 2018-19

FACULTIES : VARSHA ANNADATE , TAHER RANGWALA & JUSTIN THOMAS

DESIGN BRIEF

Introduction:

Transit systems are of great value to the development and functionality of urban areas. A great emphasis is needed on commuter convenience and well being. Transportation architecture is being focused on to enlighten the spirit of urbanism. It is therefore important for transit systems in our country to evolve in the right direction to keep pace with the pursuit of growth and fulfill the broader vision of our commuting population.

Commute is the most crucial requirement for the dynamics of growth of the city. An easy and good commute not only reduces the travel time but also helps in increasing efficiency of people at work and their good social life. Good public transportation system plays very important role for the growth and development of any city. Sustainable transportation is the need of the day with the emphasis on the commuter convenience and well being.

Navi Mumbai is based on polycentric pattern of planning and there is currently a heterogeneous mix of Buses, taxis, rickshaws, cars and bikes jostling together on the roads.

Metro is one of the solutions which is proposed to handle the growing city population of commuters and growing city needs which intends to release the pressure on existing systems in line with the inter modal connectivity across the city.



A handwritten signature in blue ink, appearing to be 'U. A.', written over the printed name of the Principal.

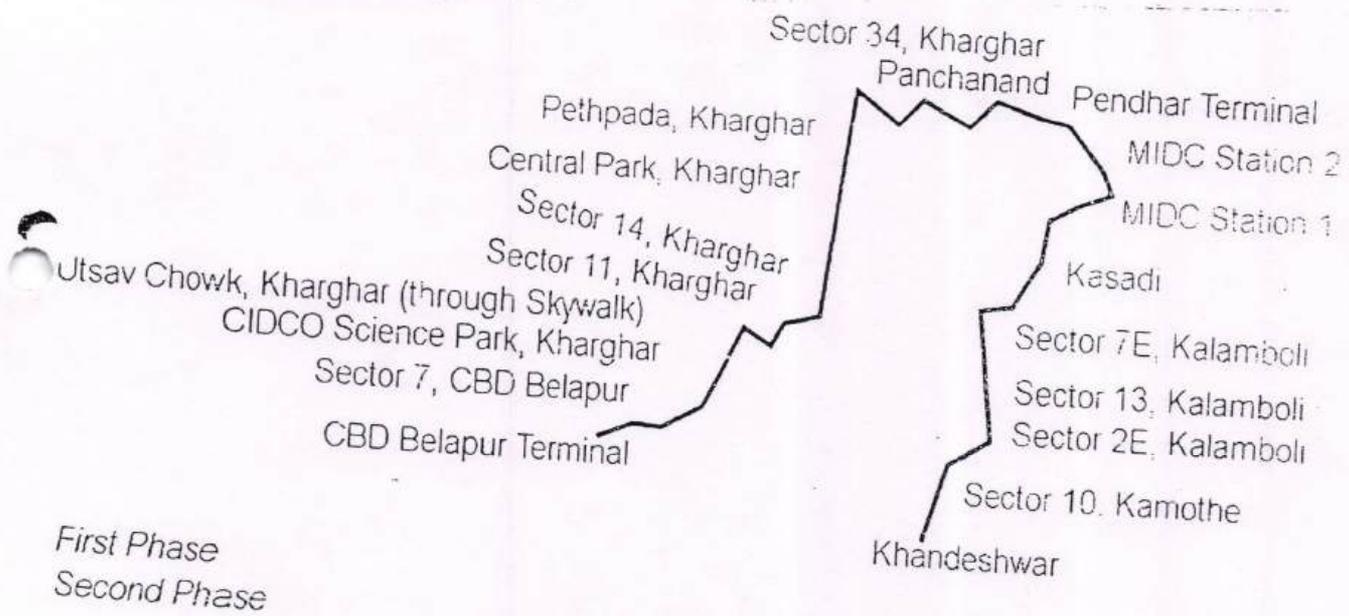
Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design a Metro station considering the dynamics of its urban context. The aim should be to facilitate intermodal transport and become a prominent place for the inhabitants and positive space for the city.

Design Objective:

- To plan spaces with a sense of scale, structure, identity and character.
- To design with functional parameters, user patterns, interrelationship, flow and transition of spaces.
- To understand and develop a climate responsive design.
- To design for the required services and safety for the users.
- To design for the open areas, public amenities and the landscape at urban level.

Navi Mumbai Metro Line 1



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

DESIGN REQUIREMENT:

1) GROUND LEVEL:

- a) Parking / Drop-off Area
 - i) Four wheeler Parking
 - ii) Two wheeler Parking
 - iii) Cycle Parking
 - iv) Bus Depot / Stand (Private / Public)
 - v) Rickshaw
 - vi) Taxi
 - vii) Private Vehicles
- b) Convenient shopping
- c) Landscape Area and Public Plaza
- d) Food Courts / Restaurant
- e) Kiosks, Shops & Departmental Store
- f) Crèche
- g) Public Toilets

2) CONCOURSE LEVEL:

- a) Information Kiosk
- b) Ticketing Counter (4 no. - each side)
- c) Waiting Area
- d) Convenient Shop (6 no.)
- e) Food Plaza (4 no.)
- f) Drinking Water facility and Toilets
- g) Bank ATM (2 No.)
- h) Travel Agents (2 No.)
- i) Controller Room
- j) Administrative Office
- k) Staff Welfare Center
- l) Police Booth (1 No.)
- m) Courier Service (2 No.)
- n) Health Center (1 No.)
- o) NGO Office (4 No.)
- p) Services (Rain Water/ Fire Fighting/ Waste Water)
- q) Other Required Facilities

3) PLATFORM LEVEL:

- a) Basic waiting Facility
- b) Viaduct
- c) Services for vertical transportation
- d) Signage / Indicators

All facilities has to be Universally accessible and proper circulation has to be provided.
Any other requirement which one feel suitable to be provided.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

DESIGN SUBMISSION REQUIREMENT:

TENTATIVE DATES:

- 1) Case studies – Findings/ Learning / Observations (To be kept Individually)
- 2) Site Analysis/ Program Analysis ----- 09/07/2018 & 12/07/2018
- 3) Conceptual sketches- Zoning / Master Plan – 19/07/2018
- 4) Design Development
 - a) 1st Stage ----- 26/07/2018
 - b) 2nd Stage ----- 02/08/2018
 - c) 3rd Stage ----- 09/08/2018
- 5) Pre Final----- 20/08/2018
- 6) Final ----- 30/08/2018

DRAWING REQUIREMENTS:

- 1) Master Plan (1:500 / 1:1000)
- 2) Concept Plans
- 3) Circulation drawings
- 4) All Level Plans (1:200)
- 5) Roof plan (1:200)
- 6) Elevations (1:200)
- 7) Sections (1:200)
- 8) Views
- 9) Model



A handwritten signature in blue ink, appearing to be 'A. S.', located below the stamp.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar

Shraddha K, Ashwini B, Bhavna S, Ajinkya V, Indrajeet B

2nd Year Architectural Design Studio

Sem 2 year 2019-20

Working title: Kindergarten and Day care

Introduction

Research suggests that pre-primary education is very important for the development of young children before they enter formal school (Kaul, 2002). It helps in cognitive development of children at the early grades of primary education and it has strong bearing on attendance and participation of children once they enter primary school. Pre-primary education is considered to be very important for the child as it is the first step towards entering the world of knowledge as well as a healthy and purposeful life. Pre-primary education helps children become more independent and confident as well as promoting the all round development of the children (Ramachandran et al., 2003).

Children who have been to Kindergarten tend to learn more rapidly through an organized curriculum, learning aids and by interacting with other children. The main purpose of pre-primary education is to prepare children physically, emotionally, socially and mentally for the future education. With the growing need of day care centers, parents prefer the combined kindergarten and daycare facility. The primary reason being the development through personalized attention throughout the education and day to day mannerism of kids. Age group from 3 to 6 years is a crucial and formative age and needs the most attention. In this age group, growth in socio-emotional skills includes the formation of peer relationships, gender identification, and the development of a sense of right and wrong. The day care cum kindergarten helps facilitate the development of child in a holistic way as it does not only limit to text book education but help them grow as a better person.

Preamble

The design aims at creation of a healthy positive space for the children of age group 3 to 6 years. The program set comprises of learning spaces, recreational spaces and resting spaces to ensure mental and physical development in children.

The project aspires at grooming and training these children for better prospects. This would help children develop cognitive and communication skills. This will be a place they can call home, a sense of belonging, a family, a place where they could eat, play and learn. The creative and vocational abilities of the children will be tapped. The program will offer hale and hearty environment for students which will encourage them to come to school every day.



A handwritten signature in blue ink, appearing to be "Ud" or similar, written over the printed name of the Principal.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Broad list of requirements

Administration: (100 Sqm)

- Office: head of institution, admin officials, accountant, manager, maintenance staff, Toilets
- Principals/ Head persons office
- Staff rooms: for teachers and god mothers

Institutional spaces (300 Sqm)

- Pre primary class rooms : 3 class rooms 25 nos of students
Nursary, KGI, KG2
- Library (can be combined with class rooms)

Day care Facility (100 Sqm)

- Pantry and dining area Aprox 25 Kids
- Resting area cum activity area

Recreational spaces:

- Indoor/ Outdoor play areas: as required
- Interaction spaces for children and teachers
- open ground
- Sufficient store rooms, passages, staircases, toilets.

Parking

- 2 car park
- 2 Van parking
- 10 two wheeler parking



A handwritten signature in blue ink, appearing to be 'U. D.' or similar, written over the printed name of the Principal.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Methodology

Through the excursions students will identify the site as per their choice and explore the site surroundings and environmental conditions before starting the design. Students are expected to understand the basic geometric shapes and volumes. The forms can be explored through the process of transformation in basic geometry.

Drawing Scheme

- Site Analysis
 - Design Concept
 - Design process
 - Plans :
- a) Roof plan/ site plan: 1:200
 - b) Ground floor plan: 1:100
 - c) First floor plan: 1:100
 - d) Site Sections/ Site Elevations: 1:100
 - e) Model 1:500/1:200
 - f) Views/Sketches

Notes:

The assessment will be more oriented towards the design process followed by the student rather than the final product.

However an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.

All reviews carry equal marks. Markings will not be upgraded or changed once the review date has passed. Considerable weightage of marks are for punctuality overall involvement and attendance.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- •Types of Shops: Clothes, footwear, mobile accessories, grocery, gift shops, accessories, photo gallery, medical, florist, eateries, fruit and vegetables, etc.
- •Other facilities like multi-functional open spaces, open to sky exhibition area (like flea market), informal areas required for street shopping, toilets etc.
- •Parking: to be designed for four wheelers, two-wheelers and/or cycles, and additional loading/unloading bay with 3 to 5 no of truck/tempo parking.

Learning objectives

- Understanding and preparing a programmatic brief.
- Understanding context, climate and related issues.
- Stimulating thought process and conceptual abilities through models and sketches.
- Development of appropriate architectural forms, their grouping and composition.
- Working out a fully resolved building with respect to services, details, interiors etc.
- To design a building that forms a component of the contextual urban infrastructure.
- To understand and apply basic building byelaws.
- Improving drawing, model making and presentation skills.

Drawing Scheme

- Site Analysis
 - Design Concept
 - Design process
 - Plans :
- a. Roof plan/ site plan: 1:1000/ 1:500
 - b. Site plan: 1:500
 - c. Site sections elevations: 1:500
 - d. Ground floor plan: 1:250
 - e. First floor plan: 1:250
 - f. Site Sections/ Site Elevations: 1:250
 - g. Views/ details
 - h. Model 1:500/1:250

Notes:

The assessment will be more oriented towards the design process followed by the student rather than the final product.

However an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.

All reviews carry equal marks. Markings will not be upgraded or changed once the review date has passed. Considerable weightage of marks are for punctuality overall involvement and attendance.




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture
Architectural Design Brief II Year - 3rd Semester - 2019
"BAZAAR HAAT"

A 'bazaar' is a permanently enclosed marketplace or street where goods and services are exchanged or sold. The term originates from the Persian word bāzār. 'Haats' are open-air temporary markets, conducted on a regular basis, several times a week, with a primary purpose of providing a market place for local communities. Such markets have a specific identity of their own as per the goods available, and have the ability to attract the local crowd as well as that of the city due to their experiential shopping. The advantages of such markets are lower prices apart from the availability of variety of local/fresh produce and goods. Various examples of such markets, albeit modified in their nature and form, around Mumbai and Navi Mumbai are: Dadar Market, Colaba causeway, Natraj Market (Mahim), Chor bazaar and markets in Kharghar, Vashi and Panvel, to name a few.

However, with the advent of supermarkets and malls, the culture of a 'haat' is slowly disappearing. It is important to identify such declining markets and work towards the improvement, so that they find a place and sustain in the modern society.

The challenge:

The challenge before the students is to comprehend the cultural traits and identity; the challenges that are posed in the identified/selected markets and suggest architectural and urban design interventions for addressing the said issues.

Design process:

- Live case studies of various markets around Mumbai/Navi Mumbai to understand their unique characteristics, functioning and cultural traits/ identities.
- Studies of secondary sources: available design standards, case studies of similar markets with innovative architectural features.
- Documentation of the origin, functions, identities and unique features of the



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

selected markets for intervention.

- Framing area and space requirements as per the various case studies, Indian design standards.
- Hierarchy of space planning along with concept/thought process for design along with narratives or storyboard to explain concept.
- Drawings and other deliverables to further explain the concept.

Design Requirements:

- 100 to 150 shops of formal and informal set up. (Like permanently constructed, moveable/temporary and open to sky vendors)
- Ratio for formal and informal shop set up 1:2 (1 formal shop: 2 informal shops)
- Types of Shops: Clothes, footwear, mobile accessories, grocery, gift shops, accessories, photo gallery, medical, florist, eateries, fruit and vegetables, etc.
- Other facilities like multi-functional open spaces, open to sky exhibition area (like flea market), informal areas required for street shopping, toilets etc.
- Parking: to be designed for four wheelers, two-wheelers and/or cycles, and additional loading/unloading bay with 3 to 5 no of truck/tempo parking.

Deliverables:

- Site selection and Site analysis, narrative
- Concept and concept model
- Site plan (1:200)
- Site sections (Min. 2) (scale 1:200)
- Roof plan (1:200)
- Module plan / Individual block plans (scale 1:100)
- Section and elevations (Min. 2 each) (Scale 1:100)
- Views 6 no. min.
- Construction details 5 min.
- Detail model



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, Navi Mumbai

Site Locations:

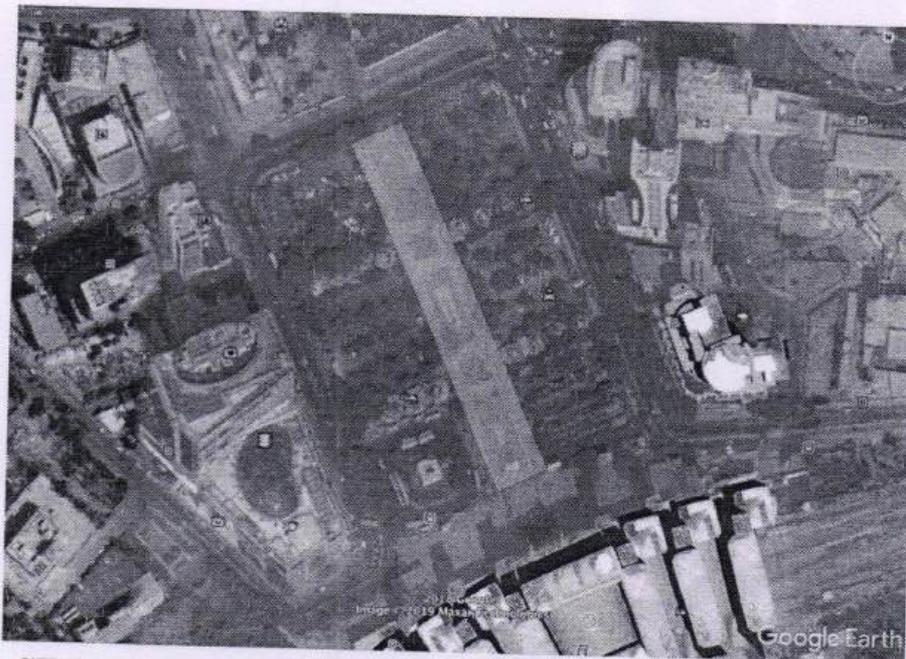
1. Utsav Chowk, Kharghar, Navi Mumbai



SITE LOCATION: UTSAV CHOWK, KHARGHAR, NAVI MUMBAI

DIMENSIONS: 95 m x 95 m

2. Vashi Railway station, Navi Mumbai



SITE LOCATION: VASHI RAILWAY STATION, NAVI MUMBAI

DIMENSIONS: 60 m x 256 m



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

3. Kamothe Sector 36, Navi Mumbai



SITE LOCATION: KAMOTHE SECTOR 36, NAVI MUMBAI

DIMENSIONS: 60 m x 125 m

Thank You,

Asst. Prof. Suvarna Thakare, Asst. Prof Astha Khare, Asst. Prof. Neha Pradhan
& Asst. Prof. Pritam Dey.

Pradhan

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar

Ar. Sonu Bothe , Ar. Sinduree M, Ar. Himika Lakhanpuria,
2nd Year Architectural Design Studio Semester 4, Academic Year 2019-2020

Title: Community Centre

Introductory Notes

Design intended in understanding the diverse culture of the people living in Worli Koliwada and designs a community centre that would help them in restoring their cultural aspects and help them in the work of fishing. The objective of the design was to understand the existing problems and provide a solution to people through the design and contribute in their daily activities. The site was inclusive of the prominent tourist structure THE WORLI FORT, so the brief demands that the design should blend with the existing structure and ensure that it adds value to the historical structure.

Site

Site : Worli Koliwada

Site area: 9690 Sq.m (2.3 acres)




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Basic List of Areas

Activities in Community centre:

Museum
Audiovisual Room
Exhibition halls (ac/ non ac halls)
Library
Auditorium
Workshop Areas

Miscellaneous:

Reception space, Enquiry Desk, fee counter
Administrative offices, Director's cabin, Conference room

Leisure Activities:

Cafeteria
Children play area/zone
Shops

Infrastructure Facilities

1. Technical Facilities such as Plant room, electric substation, electric power backup system, Fire safety arrangements etc.
2. Toilets as per requirements




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Learning objectives

- Understanding and preparing a programmatic brief.
- Understanding context, climate and related issues.
- Stimulating thought process and conceptual abilities through models and sketches.
- Development of appropriate architectural forms, their grouping and composition.
- Working out a fully resolved building with respect to services, details, interiors etc.
- To design a building that forms a component of the contextual urban infrastructure.
- To understand and apply basic building byelaws.
- Improving drawing, model making and presentation skills.

Drawing Scheme

- Site Analysis
 - Design Concept
 - Design process
 - Plans :
- a. Roof plan/ site plan: 1:1000/ 1:500
 - b. Site plan: 1:500
 - c. Site sections elevations: 1:500
 - d. Ground floor plan: 1:250
 - e. First floor plan: 1:250
 - f. Site Sections/ Site Elevations: 1:250
 - g. Views/ details
 - h. Model 1:500/1:250

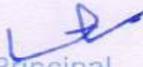
Notes:

The assessment will be more oriented towards the design process followed by the student rather than the final product.

However an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.

All reviews carry equal marks. Markings will not be upgraded or changed once the review date has passed. Considerable weightage of marks are for punctuality overall involvement and attendance.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

RAVALVADI CULTURAL CENTER

Aim:

To showcase the art forms of Kutch and built an environment friendly climate responsive cultural centre which informs people about Kutchi traditions

Learning Objectives:

- To evolve form based design which a component of the contextual urban infrastructure.
- Understanding and preparing a programmatic brief
- Understanding context, climate and related issues
- Stimulating thought process and conceptual abilities through models and sketches
- Development of appropriate architectural forms, their grouping and composition. Working out a fully resolved building with respect to materials, services, transportation, structural details, interiors etc.

Introduction:

In India – a country with rich and diverse cultural heritage, the need for openness and understanding amongst people and healthy response and respect for different traditions becomes imperative.

The design assignment focuses on creating a cultural center. This would include PARKING for all the types of passenger vehicles, FOOD COURT with all the services and facilities and a MOTEL for overnight lodging for long distance travelers.

Program Brief:

The master plan would include all the above mentioned requirements, but details have to be worked out either for FOOD COURT or MOTEL as per the student's choice.

Site

The Site is located near to Chattardi Talav; Swaminarayan Temple & Sharadbaug palace. Site is easily accessible and well connected to road. The area would be approx. 3 acres.

Workshops

In our cultural center workshops for visual art forms like Rogan Art, Copper Bell, Block Printing, Leather Embroidery, Weaving & Dyeing, Khavda Pottery, Bandhani will be held and for performing arts Disco Dandiya & Dandiya Raas Workshop would be held. (As per students choice)

Parking

Parking for vehicles like four wheelers and two wheelers.

The Food Court

Eating joints of all types and categories, with appropriate services, storages and seating areas.

Motel

Guest rooms with all the necessary facilities like dining.

Services to be considered:

- Water supply
- Electrical substation
- Air conditioning
- Environmental services
- Rainwater harvesting
- Building acoustics

Tentative Program Brief:

Plot Area: 12140.6 sq m (3 Acres)




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design Requirement:

Maximum built coverage on ground – 50% of Plot area which includes:

S. No	Space	Per Person Area	No. Of People	Total Area	
Administration					
1	Enquiry area	0.5 m ²	1	4 m ²	
2	Admin Office Space	1.5 m ²	10	30 m ²	
3	Record room	0.5 m ²	2	9 m ² (with circulation)	
4	Pantry	0.5 m ²	1	6 m ²	
5	Staff Toilet		1	3 m ²	
6	Conference Hall	0.5 m ²	9	98 m ²	
Library space					
7	Book stacking area	0.9 m ² (per stack)	8 (no. of stacks)	7.2 m ² (area for 8 stacks) 19 m ² (with circulation)	
8	Seating Reading spaces	6 m ² /4.5 m ² (6/4seater table)	24	43 m ²	
9	Issue Counter	0.5 m ²	1	3 m ²	
Public facilities					
10	Multipurpose hall	3.14 m ²	30	140 m ²	
11	Exhibition Spaces	0.5 m ²	50	82 m ²	
12	Retail Shops	0.5 m ²	1	6 m ²	
13	Common Toilets			56 m ²	
Workshops area					
No. Of People = Mentors + Participants				Open	Covered
14	Rogan Art	1 m ²	3 + 20	9 m ²	23 m ²
15	Copper Bell	1 m ²	4 + 20	10 m ²	42 m ²
16	Block Printing	1 m ²	5 + 10	18 m ²	52 m ²
17	Leather Embroidery	1 m ²	5 + 20	20 m ²	43 m ²
18	Khavda Pottery	1.5 m ²	5 + 20	12.5 m ²	75 m ²
19	Bandhani	1 m ²	7 + 22	30 m ²	41 m ²
20	Disco Dandiya	3.14 m ²	2 + 13	50 m ²	
21	Dandiya Raas	3.14 m ²	2 + 13	50 m ²	
Cafeteria					
22	Indoor Dinning Space	4.5 m ² (per table)	35	50 m ²	
23	Outdoor Dinning Space	4.5 m ² (per table)	64	95 m ²	
24	Working Area			22 m ²	
Outdoor spaces					
25	Auditorium	0.5 m ²	120	300 m ²	
26	Interaction spaces	-	-	130 m ²	
Staying Facility					
27	Single Occupancy Room	20 m ² (with toilet), 14 m ² (without toilet)	10 (10 rooms)	200 m ² (with circulation)	
28	Double occupancy Room	30 m ² (with toilet), 24 m ² (without toilet)	20 (10 rooms)	300 m ² (with circulation)	
29	Dining facility	0.8 m ²	30	48 m ²	


 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, B.D, Navi Mumbai

Parking Facility				
30	Two Wheeler	2 m ²	30	60 m ²
31	Four Wheeler	12.5 m ² (per car)	30	375 m ²
32	Bicycle	1 m ² (per cycle)	20 (cycles)	20 m ²

Admin = 150

Library = 65

Public facilities = 284

Workshops area = 276

Cafeteria = 72

Outdoor spaces = 430

Staying Facility = 348

Built up area = 1630 m² = 17545.17 sq ft

About:

Hence the footfall is 300 approx. taking into consideration the above design requirements.

Deliverables:

- o Studies related to the user groups and their behavior and need
- o Site Analysis
- o Design Concept
- o Design process
- o Plans :
 - a) Roof plan/ site plan: 1:500/ 1:250
 - b) Ground floor plan: 1:200/1:100
 - c) First floor plan: 1:200/1:100
 - d) Site Sections/ Site Elevations: 1:200/1:100
 - e) Views
 - f) Model 1:500/1:200
 - g) Study models showing the progress of design.

Schedule for Marking:

From August – October (1 week) – Internal Marking



(Handwritten signature)

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth college of Architecture, Navi Mumbai

Design Brief – Sem –V

Year 2019-2020

Faculty coordinators-Ar.Harshada Ponkshe,Ar.Mayuri Deshmukh,Ar.Swapana Deshmukh

Public plaza at Seawoods, Navi Mumbai

Learning Objectives:

- To understand the different activities and their special needs in public realm.
- To understand behavioral pattern of different age groups in public places
- To understand the different principles of architectural planning
- To study and analyze site, special features and site context
- Stimulating the thought process and concept development on the basis above mentioned study.
- To achieve a climate responsive design with respect to the site context.

Introduction:

Plaza is an urban park or square or a public space where people can walk, sit, and congregate. Public plaza is a community amenity that serves a variety of users. It serves as a platform for public art, and celebrations for different festivals. Plazas are a beneficial feature of any lively streetscape. The quality and the success of urban spaces such as public plazas is generally investigated either by looking for how comfortable are these spaces in terms of ambience characteristics such as thermal and acoustic comfort, landscape features and its visual and physical accessibility. The location and context of plaza plays key role in its efficient functioning. Visibility and visual perception are of a great importance on how people behave, appreciate and experience the environment and could be determinant factors in designing urban spaces.

Proposed site

The site for the project is located at Seawoods Darave in Navi Mumbai adjacent to NRI complex. It is accessed from Palm Beach road and has Thane creek on the southern side. The site area is approximately 8.5 acres with a gradual slope towards the creek.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design Programme Proposed site at seawoods

1. Administration area

- Managers cabin + toilets – 20 Sq. m.
- Storage area – 15 Sq. m.
- Staff area - 25 Sq. m.
- Waiting area - 25 Sq. m.
- Toilets (separate for staff and visitors) - as per requirement
- Pantry – 10Sq. m.
- Meeting Room - 20-25Sq. m.

2. Multi - purpose (and/or) Exhibition space-

Capacity 250 people

Can be open to sky or closed space

- Stall - 50-60m²
- Offices - 50-60m²
- Toilets (can be common or separate) - as per requirements

3. Shopping

- Formal / Permanent- 10 No. - 5 of 20Sq. m. and 5 of 10Sq. m.
- Informal / Temporary - 5 - 10 No. - as per requirements

4. Food zone - 100 seats

- 1 Restaurant (kitchen, pantry, toilets etc.) - 50-70 seats + outdoor seating (With kitchen 1/3rd the total area)
- 1 Cafeteria (kitchen, pantry, etc.)
- 10 food stalls – 10 Sq. m. each

5. Mini theatre/ Amphitheatre (200 - 250 people)

6. Public toilets - as per standards (considering maximum footfall 1000)

7. One additional space can be added as per your requirement (library, spa, etc.)

8. Pathways, jogging tracks etc. (landscaping) as per design

9. Parking lot (considering maximum footfall 1000)

- Two - wheelers
- Four - wheelers
- Bus

Recommended Readings

1. Urban Design-Street and Square by Cliff Moughtin.
2. The Use of Public Plazas in China and the United States: Measuring the Differences Using Direct Observation in Boston and Chongqin

H.K. Ponkshe
(Harshada Ponkshe)


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar	
Prof. Varsha Annadate, Prof. Tejaswini H.M., Prof Bodhayan C., Prof Suchita P.	
3rd Year Architectural Design Studio	June 19- Oct 19
Topic: Indoor sports complex with water front development, Navi Mumbai.	

Introductory notes

Indoor games and sports are a variety of structured forms of play or competitive physical activity, typically carried out either in the home or in specially constructed indoor facilities. Card games, Board games, Table-top games and Indoor sports. These complexes often provide a Turf Field that allows a wide variety of typically outdoor sports to be played indoors.

A **public space** may be a gathering spot or part of a neighbourhood, downtown, special district, waterfront, or other area within the public realm that helps promote social interaction and a sense of community. Examples include spaces such as plazas, town squares, parks, marketplaces, public commons and malls, public greens, sport complexes, special areas within convention centers or grounds, sites within public buildings, lobbies, concourses, or public spaces within private buildings. As with all categories of Great Places, it is important to identify what sets a space apart from others spaces to qualify it for a Great Spaces designation. Public space, as a term and as a concept in design, is volatile. There is much conversation around what constitutes public space, what role it plays, and how design should approach and deal with it.

Site

Navi Mumbai, located in the eastern trans-harbour of Mumbai, Maharashtra, is one of the world's largest planned townships. Navi Mumbai has become a major metropolitan city in the past 3 decades. It caters to various infrastructure services to urban population with better and bigger facilities mainly educational. Other services such as residential, commercial, industrial and cultural spaces have also been developed.

Three sites were identified to design for academic purpose.

1. Mini seashore, Sector 09, Vashi ---9.32 Acres
2. Sagar Vihar, Sector-08, Vashi ----9.25 Acres
3. Sector-11, Airoli ----9.54 Acres

Learning objectives

Understanding context, climate and related issues

Understanding and preparing a programmatic brief

Stimulating thought process and conceptual abilities through models and sketches

Development of appropriate architectural forms, their grouping and composition

Working out a fully resolved building with respect to services, details, interiors etc.

To design a building that forms a component of the contextual urban infrastructure.

To understand and apply basic building byelaws

Improving drawing, model making and presentation skills



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Broad list of built and unbuilt spaces

Outdoor spaces

Plazas/ Pavilions / entrance gateways, Parking
Amphitheatre
Multipurpose areas
Skating rink, cycle, jogging track, theme based gardens
Waterfront development/Promenade viewing decks
Design of a landmarks (sculptural element)

Indoor spaces

Area for Card Games, board games, Table top games.
Table tennis court.
Badminton court
Squash court
Archery
Billiards/Snooker
Gymnasium, Spa, Health centre
Traditional Sports
Banquet Halls (2nos, 200 persons)
Multipurpose rooms (Yoga and meditation hall)
Swimming pool (indoor/outdoor) half Olympic size
Restaurants, bar and cafe
Library
Shops, Medical facilities
Accommodation – Guest rooms, dormitory- 2 nos.
Store
Public Toilets ancillary activities and functional spaces

Infrastructure facilities

Administrative Facilities
VIP lounges
Technical Facilities such as Plant room, electric substation, electric power backup system, Fire safety arrangements etc.
Information kiosks
Security office
Storage and locker facilities

Notes:

The assessment will be more oriented towards the design process followed by the student rather than the final product.

However an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.

All reviews carry equal marks. Markings will not be upgraded or changed once the review date has passed. Considerable weightage of marks are for punctuality overall involvement and attendance.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, V. K. Marghar
Rly. Station, C.B.D. Mumbai

Drawing Scheme

- Site Analysis
 - Design Concept
 - Design process
 - Plans :
- | | |
|-----------------------------------|-----------------|
| a) Roof plan/ site plan | : 1:1000/ 1:500 |
| b) Site plan | : 1:500 |
| c) Site sections elevations | : 1:500 |
| d) All floor plans | : 1:250 |
| e) Site Sections/ Site Elevations | : 1:250 |
| f) Views/ details | |
| g) Model | : 1:500/1:250 |



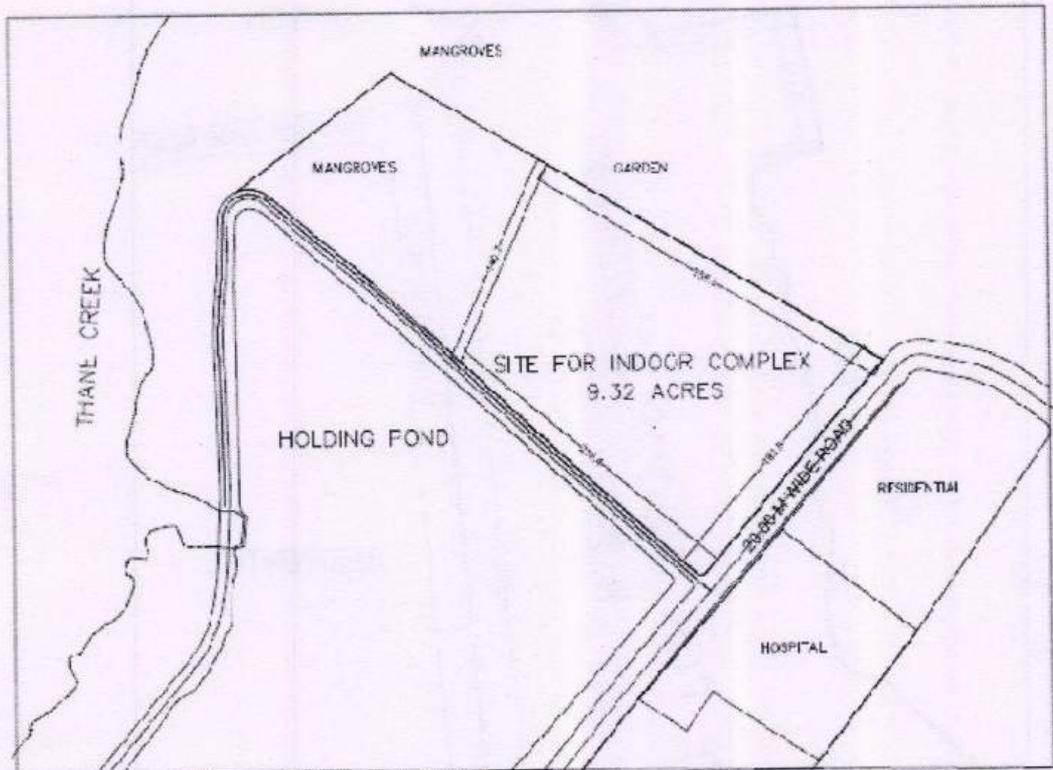
A handwritten signature in blue ink, consisting of a stylized 'U' shape followed by a vertical line and a horizontal stroke.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Submission And Marking Schedule:

1. Mind mapping	14-06-2019
2. Case study presentation	21-06-2019 25-06-2019
3. Conceptual sketches with zoning Layout	11-07-2019
4. Design Development -I	23-07-2019
5. Design Development -II	06-08-2019
6. Design Development -III	27-08-2019
7. Prefinal (Site plan, detailed floor plans (furniture layout, position of openings), elevations /sections/model	13-09-2019
8. Final: All plans, elevations and sections, and model	24-09-2019



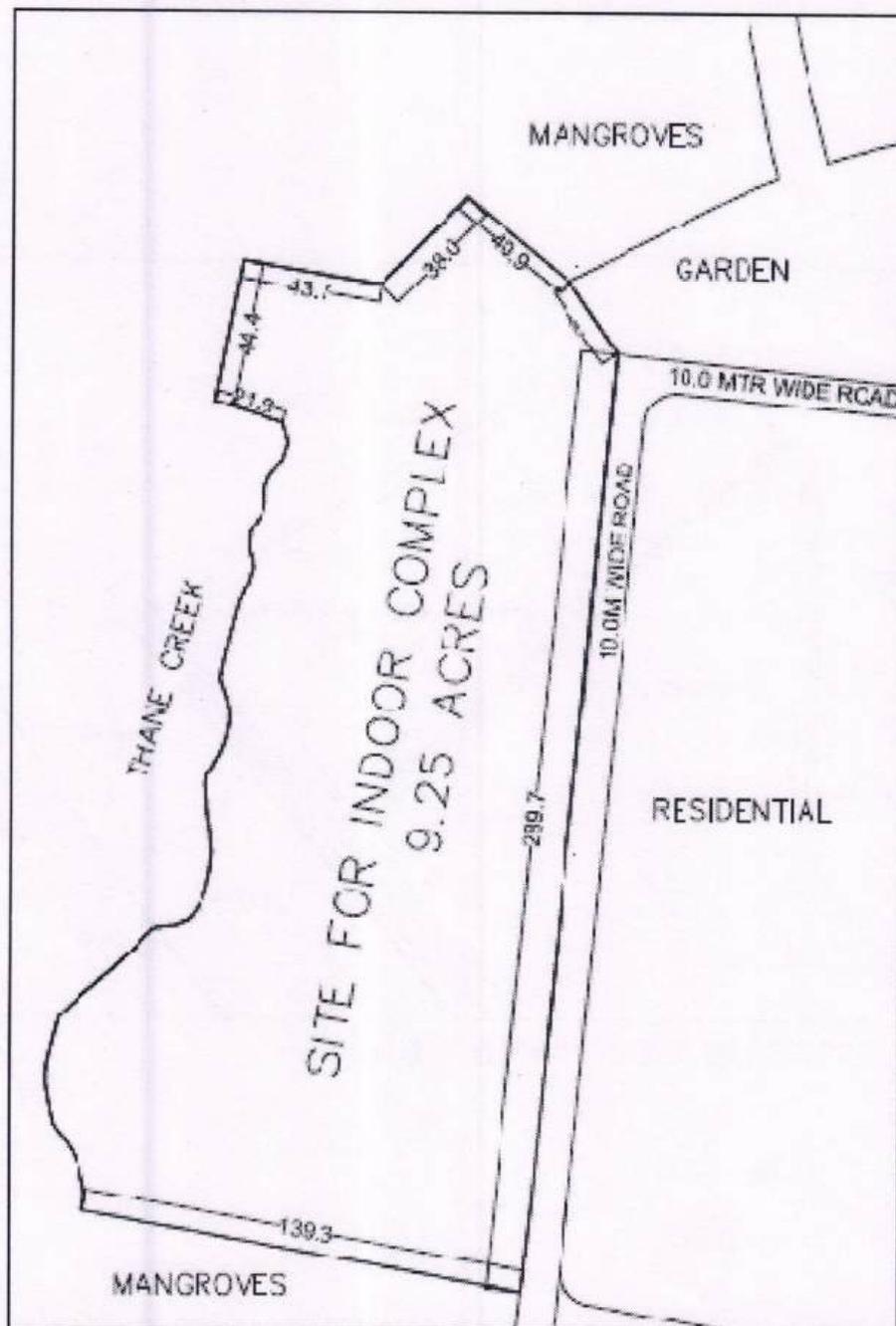


MINI SIAS ICRE, VASHI II



[Handwritten signature]

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

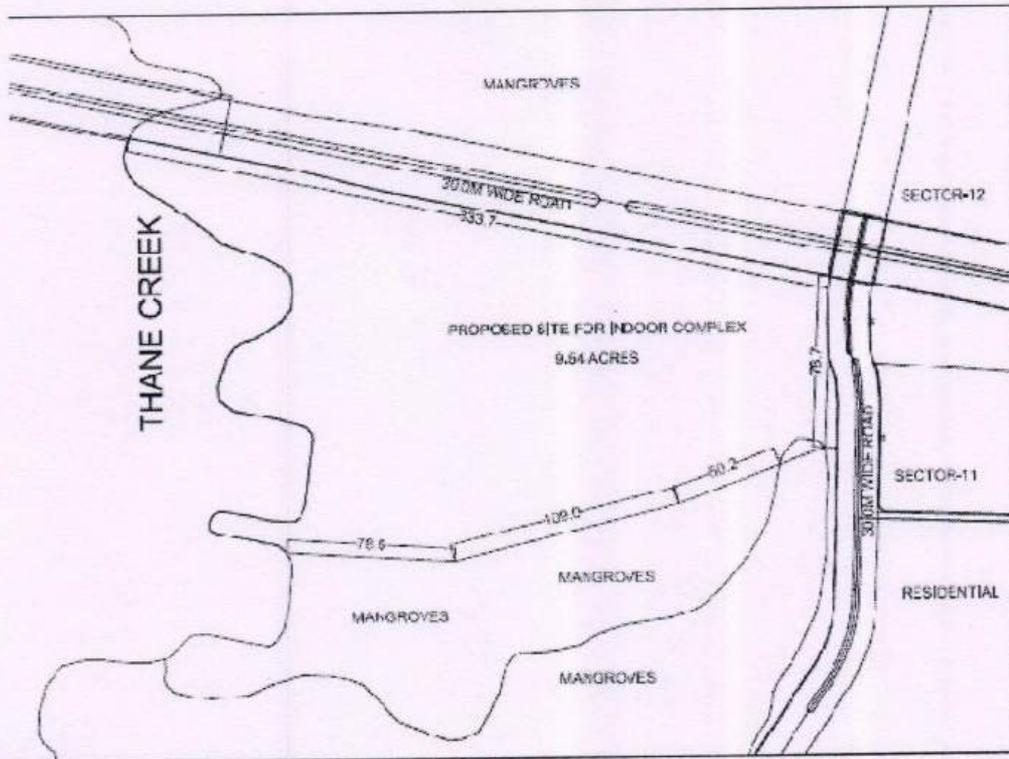


SAGARVIHAR, VASHI



[Handwritten signature]

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



AIROLI



[Signature]
Suchita Pawar



[Signature]
Principal
Bharati Vidyapeeth
College of Architecture
H. M. P. Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

Architectural Design – VI

3rd Year B. Arch. – A

Year 2019-2020

Prof. Dipanvita C., Prof. Harshada P., Prof. Mayuri D., Prof. Swapna D.

Design Institute at Belapur, Navi Mumbai

Course Objectives:

1. To understand nature of Urban Institutions
2. To understand the context and character for urban institutions
3. To understand requirement of Campus planning, architectural forms, spaces for corresponding activities

Introduction of the topic-

Design education is the teaching of theory and application in the design of products, services and environments. It encompasses various disciplines of design, such as architecture, graphic design, industrial design, fashion design, textile design etc. Design education is learning how to apply practical methods, prior knowledge, and natural talent. It is also referred to as Creative Education.

Design school is a place where formal education related to Design is given under a fixed framework, a place where experimentation is done. As Design can be learnt through experience, observation and experimentation, spaces that promote formal as well as informal interaction between students, teachers, visitors, guests, experts are required to be consciously designed in the design institute.

Class objectives-

1. To understand the meaning of Design institute in terms of formal education
2. To understand the different requirements of Design School in terms of teacher- student ratio, methods and techniques used for teaching, space requirements for different activities (qualitative and quantitative)
3. To study activities, demands and behavioral pattern of different stake holders
4. To study the required infrastructure and services
5. To study and analyze the site for proposed project in terms of location, context, climate and topography
6. To understand site planning concepts through study of different aspects like sense of entry, Imageability of structure, sense of direction etc. Stimulating thought process and conceptual abilities through models and sketches
7. Development of appropriate architectural forms, their grouping and composition. Working out a fully resolved building with respect to materials, services, transportation, structural details, interiors etc.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

There will be 4 courses in design institute each having intake of 20 and each course of four years duration.

- CERAMIC AND GLASS DESIGN
- PRODUCT DESIGN
- TEXTILE DESIGN
- VISUAL COMMUNICATION

The area requirements-

1. Teaching / learning spaces

Lecture + Studios for all classes-80-100 (flexible as per design)

CERAMIC AND GLASS DESIGN-

- Blaster and glass lab-80 sq.m.
- Dyeing studio-60 sq.m.
- Storage

PRODUCT DESIGN-

Wood workshop-200 sq.m.

- Machinery area
- Storage
- Staff area

Metal workshop-200 sq.m.

- Machinery area
- Storage
- Staff area

TEXTILE DESIGN

- Weaving lab-150 sq.m.
- Leather -75 sq.m.
- Offset printing-75 sq.m.
- Dark room-30 sq.m.
- Storage

VISUAL COMMUNICATION

- Laboratory
- Dark room



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

2. Common areas-

- Parking- Bus parking 1 bay, 4 wheelers -25 -30, 2 wheelers -50,
- Parking requirement for services
- Entrance Lobby
- Reception and Waiting area
- Principal cabin-1 Nos.
- HOD Cabin-4 Nos.
- Conference room + Pantry- 35 people
- Administration area-8-10 people
- Exam section-2-3 people
- Staffroom-2 Nos. with toilets (Each catering to 12-15 persons)
- Student Toilets- as per requirement
- Library-400 sq. m
- Material library 200 sq. m
- Seminar/Multipurpose Hall- 120 people
- Amphitheatre 500 people
- Computer Lab for 60 students
- Stationary Shop
- Exhibition area
- Canteen max 100 people

Schedule of markings

- 17th Jan Concept , site zoning and site plan along with building footprint
- 24th Jan Finalization of Plans and block model
- 4th Feb Preliminary structural layout , Elevations and sections
- 18th Feb and 21st Feb Site plan and building plans ,elevations, sections and block model
- 6th March Pre-final submission

17th March Final submission

Deliverables:

- Case study analysis for institutional project
- Site data, site analysis, project analysis Design approach
- Plans :
 - a) Roof plan/ site plan: 1:250
 - b) Ground floor plan: 1:200/1:100
 - c) First floor plan: 1:200/1:100
 - d) Site Sections/ Site Elevations: 1:200/1:100
 - e) Views
 - f) Model 1:500/1:200
 - g) Study models showing the progress of design.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Key References:

Sr. no:	Books	Author
1	Space planning basics	Mark Karlen
2	Golden ratio	Mario Livio
3	Ritualistic pathway projects	Charles Correa
4	Timeless way of building	Christopher Alexander
5	Site analysis	Edward White
6	Minimalist architecture	Franco Bertoni
7	Time saver Standards for Building Types	Joseph De Chiara
8	Climate responsive architecture: A Design Handbook for Energy Efficient Buildings	Arvind Krishan , Nick Baker , Simos Yannas , Steve Szokolay
9	Building global institutions	-Marcel Breur
10	Buildings for Tomorrow	Paul Catterman

Evaluation Criteria:

The evaluation comprises of **60% progressive** and **30% final portfolio** of finished drawings and **10% of Attendance**.

H.K. Pontshe

(Harshada Pontshe)




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

ARCHITECTURAL DESIGN BRIEF OF

AVIATION INSTITUTE

And

NATIONAL INSTITUTE OF FASHION TECHNOLOGY

SEMESTER -6

CLASS -3rd Year

Div-C

Faculty: Prof.Varsha .A,Prof.Tejaswini, Prof.Suchita.P,Prof.Shilpa.Z,Prof.Bodhayan .C

Introduction:

Education, Progress and prosperity of a country has close links. It is upon education that development of a country rests. Institutional planning is programme of development and improvement prepared by and education institution on basis of needs and resources available. No country can think of social or economic development without any proper planning in education.

Aim:

To develop an educational institute campus engaging theoretical and practical learning.

Objectives:

- Understanding the existing campus design and analysis patterns and activities of campus.
- Understand spatial qualities and characteristics of institute design.
- Understanding guidelines of governing authorities and developing spaces .
- Exploring ideas through vision, teaching methodology ,technology and sustainable approach
- Exploring learning spaces in context to site morphology .

Institute of Aviation –

India is on the path of development with wide visions of development and making life better for people one of which is the vision of becoming third largest market by 2020 and the world's largest by 2030. The Indian Aviation industry is towards upward movement attracting investors from all over the world or with government agencies developing 500 airports by 2020 across India. These things have demanding trained professionals in this sector and is bound to grow and creates tremendous opportunities for aspiring candidates. Also Aircraft is very expensive and sophisticated machine which needs precise handling and proper maintenance, to accomplish this highly skilled professionals are required. Hence there is need of aviation academy to train technical persons and Engineers.

Tejaswini
(Ar. Tejaswini H.M.)



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Programme Brief:

Course

Courses	Course Duration	Intake
Pilot Training		
• Student Pilot license	1 year	
• Private pilot license	1 year	
• Commercial Pilot	1.5 year	
Air –Craft Maintenance Engineering		
I. B1.1- heavy Air craft+Jet engine	2 years+2 Year Internship	30
II. B121- Light Air craft+Jet engine	2 years+2 Year Internship	30
III. B1.3- Avionics	2 years+2 Year Internship	30
IV. B1.4- Rotary Wing Aircraft+jet engine	2 years+2 Year Internship	30

Architectural Programme Brief

Sr.no.	Spaces	Areas(Sq.M.)
A)	Administration	
I.	Reception +Lobby	
II.	Admission Office	
III.	Account section	
IV.	Directors Cabin	
V.	Principal office	
VI.	Conference room	
VII.	Record Room	
VIII.	Store Room	
IX.	Pantry	
X.	Rest Room	
XI.	Seminar Hall/multipurpose Hall	
XII.	Audi visual room	
XIII.	Computer lab	
XIV.	Stationary Shop	
XV.	Counsellors room/First Aid Room	
XVI.	Staff Room	
XVII.	Amphitheatre	

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

XVIII.	Canteen+Kitchen	
B)	Learning Spaces	
	Classrooms	
	workshops	
	Avionics lab	
	Simulator Room	
	Library	
	Hanger	
	Instructor room	
C)	Pilot Training	
	ATC Tower Room	
	Flight Office	
	CAMO-Continuing AirWorthiness Management Organisation	
	Engine overhaul & Assemble	
	Engine Bath Section	
	NDT shop	
	Electrical Shop	
	Battery shop	
	Fuel storage	
	Store Room	



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

NATIONAL INSTITUTE OF FASHION TECHNOLOGY –

The NIFT is a pioneer in envisioning and evolving fashion business education in country. It was established in 1986 in New Delhi under the aegis of the Ministry of Textiles, Government of India, with curriculum and faculty support from the Fashion Institute of Technology (FIT), in Manhattan, New York City. India's major industry reflecting its craftsmanship and culture has been its textiles and clothing manufacture and today the National Institute of Fashion Technology is the leader in the development of human resources for its future growth.

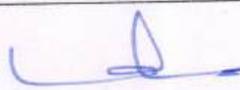
NIFT has since grown into 16 campuses nationwide.

Course

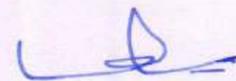
Sr.No.	Courses	Course Duration	Intake
1	Fashion Designing Department	4 years	30
2	Knit wear Design & technology	4 years	30
3	Accessory Design	4 years	30
4	Fashion Communication	4 years	30
5	B.F.Tech(Apparel Production)	4 years	30

Architectural Programme Brief

Sr.no.	Spaces	Areas(Sq.M.)
A)	Administration	
I.	Reception +Lobby	
II.	Admission Office	
III.	Account section	
IV.	Directors Cabin	
V.	Principal office	
VI.	Conference room	
VII.	Record Room/Store Room	
VIII.	Media Room	
IX.	Pantry	
X.	Rest Room	
XI.	Seminar Hall/Multipurpose Hall/Exhibition Area	
XII.	Audi visual room	
XIII.	Computer lab	
XIV.	Stationary Shop	
XV.	Counsellors room/First Aid Room	
XVI.	Staff Room	


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

XVII.	Library	
XVIII.	Amphitheatre	
XIX.	Canteen+Kitchen	
B)	Fashion Designing Department	
	Classrooms	
	Pattern making Lab	
	Machine lab	
	Store	
	Lab Assistant	
	Faculty room	
C)	Knit Wear Design Technology	
	Classrooms	
	Art Room	
	Pattern making Lab	
	Knitting Lab	
	Store	
	Lab Assistant	
	Faculty room	
D)	Accessory Design	
	Lecture Room	
	Design Studio	
	Material Workshop	
	Leather Workshop	
	Store	
	Lab Assistant	
	Faculty room	
E)	Fashion Communication	
	Lecture Room	
	Computer Lab	
	Photography Lab	
	Store	
	Lab Assistant	
	Faculty room	




Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Schedule of Architectural Design

Month	Week	Date	
Nov.	13th-15th		Design program identification & Presentation
	18-22		Case study identification
	25-29		Case study visit(Baramati)
Dec.	2-6		Design Week
	9-13		Elective Week
	16-20		Case study(Thakur College of Aviation)
	23-27		Pinnacle
Jan.	30-3		Case study discussion
	6-10		Case study Presentation+site identification
	13-17		Design discussion
	20-24		
Feb.	27-31		
	3-7		
	10-14		
	17-21		
March	24-28		
	2-6		
	9-13		
	16-20		
	23-27		

Submission And Marking Schedule:

- | | |
|---|--------------------------|
| 1. Case study presentation | 03-12-2019
25-12-2019 |
| 2. Site Analysis | 10-12-2019 |
| 3. Conceptual sketches with zoning Layout | 24-12-2019 |
| 4. Design Development –I | 14-01-2020 |
| 5. Design Development –II | 04-02-2020 |
| 6. Design Development –III | 28-02-2020 |
| 7. Prefinal (Site plan, detailed floor plans
(furniture layout, position of openings),
elevations /sections/model | 06-03-2020 |
| 8. Final: All plans, elevations and sections,
and model | 20-03-2020 |



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

ARCHITECTURAL DESIGN (4TH YEAR 'C' DIVISION -2019-20)

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

FACULTY: Ar. Shilpa Zabak, Ar. Sumitra Kadam, Ar. Kunal Panchal, Ar. Kirti Lonerkar

MASS HOUSING

Introduction:

In today's context of development in Mumbai, urbanization has become the pull and push factor of the countries' economy. It is also responsible for mass shift of population from rural to semi urban areas and from semi urban to urban and fringe areas. As the service sectors are growing, urban areas are magnets for work opportunities. This contributes to the pressure on housing needs in the city. The acceleration in economic development calls for all round development for the city with proper living conditions ensured for the inhabitants. Improving social cohesion and dissuading social anonymity have to be dealt through better architectural focus and more ideation is needed for quality of life. A sustainable lifestyle as a derivative of cultural harmony and amicable social texture could enhance and enrich the day to day approach towards city life. The studio aims to explore housing as a holistic human need rather than a commodity and stock

Learning Objectives:

- Understanding the various typologies of Housing & Community living through case studies, site visits and research.
- Understanding of physical and psychological need of the communities in relation to spatial context.
- Using various technological innovations & incorporating them in design.
- To design the complex with response to the implications and limitations of site and bye laws.

Aim:

To design a housing complex for sale tenement units in approximately 10 acres of plot area.

Design considerations:

- F.S.I. would be 1.0+0.35 (fungible FSI)
- Adequate 4-wheeler and 2-wheeler parking should be accommodated as per bye-laws.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- Student has to identify any of the theme for working, for e.g.-, sustainable, energy efficiency, low cost, material based, climate responsive, etc. Other themes can also be incorporated after the discussion with the faculty.

The following are the distribution of areas which needs to be fulfilled in Housing Complex Design.

Site Area	100 %	Selected site
Infrastructure	15 %	Internal roads
Residential+ Commercial	60 %	Residential (50%) + Commercial (10%)
Amenities	5 %	(to be handed to the corporation)
Recreational ground	15 %	Playground, garden etc
Utilities/Services	5 %	Fire, electrical and water services

Allocation of areas for various housing types

Housing Type	% Area Distribution
LIG	10%
MIG	60% (10% Studio apartments + 50% 2BHK)
HIG	30% (10% Row houses /Sky bungalows +20% 3BHK/4 BHK)

Deliverables:

- **Case Studies**
 1. Inference sheet from Book reading exercise highlighting the major learning of a housing project
 2. Presentation on study of Individual Housing society complexes.
 3. Study of group site visits done to various housing complexes by eminent architects in Navi Mumbai
- **Design**
 1. Sheet on site study and analysis
 2. Concept or Core idea of Design
 3. Site plan showing all services
 4. All level Plans
 5. Minimum 3 Sections highlighting major details of the site
 6. Sketches and views of the Designed Housing Complex



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Mass Housing project in Kharghar, Navi Mumbai

Learning Objectives:

- To acquire a comprehensive and organized knowledge of various typologies of housing.
- To understand the spatial implications of cultural and social aspects of community living.
- Learning of physical and psychological need of the communities, based on their occupation, economic status, gender, age, religion, social status etc and application of it in spatial context.
- To understand different materials and construction techniques adopted in mass housing projects.
- To understand and workout the ancillary requirements and areas through the research and analysis of the above points and case studies.
- To design the complex with response to the implications and limitations of site and bye laws.
- To understand the specialized services required in the complex.
- To achieve a climate responsive design with respect to the site context.

Introduction:

Housing, being the basic need of a human being, all the layers of the society need to be catered. In a metropolis like Mumbai, 60% of the population is living in slums, as the housing stock available in the market is not affordable for them. There are around 4.8 lakh tenements in Mumbai which are unsold due to very high prices. At the same time almost equal no. of people are homeless. There is a huge gap between demand and supply. So there is a need to focus on the affordable housing for low income group. Also there are lot of dilapidated structures in island city that haven't yet undergone for redevelopment due to various reasons (e.g.- BDD chawls). Now there are chances of redevelopment of such structures. So there will be high demand of transit tenements. MHADA is a government Authority responsible for both - construction of low cost housing and transit tenements.

In Mumbai, scarcity of land due to different reasons like geographical limitations, locked land parcels due to slums, defunct Mill lands and defunct dock lands is one of the major problems and needs to be solved by recycling of land. Some provisions are made in DCR 1991 regarding redevelopment of mill lands in rule no. 58 .As per that when any mill land goes for redevelopment, the total area of plot gets divided into three parts- one part needs to be handed over to MCGM for development of open space, one part goes to MHADA for development of affordable housing and one part remains with the owner where he can construct residential/ commercial complex.

The site selected for the project is one of the defunct mill land in island city- India United Mill No. 1 at Parel admeasuring around 19 acres.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Program Brief:

Proposed site-

One of the site for the project is with private ownership as plot no 10 in Sector 6 and another of Defense ownership in Sector 20 (Please find attached images for site details)

Design Problem

To design a mass housing project on a said plot with a mix of LIG, MIG and HIG with understanding of Navi Mumbai housing scenario.

SITE 1 - Plot no 10, Sector 6 - Plot Area -

SITE 2 - Plot no , Sector 20 - Plot Area -

- FSI- 1.0 + 0.35 (fungible)
- 30% of FSI to be consumed for LIG , 50 % can be used for MIG and remaining 20% should be used for HIG
- Tenement density- 250/Ha.
- Min. Carpet area of single tenement
- LIG - 30-40SQ.MT
- MIG 55-75SQ.M
- HIG- 85.00 SQ.M - 145.00 SQ.M

Provision of internal roads in the layout, parking areas, Recreational open spaces, side/front margins, Building heights, Min . room dimensions , staircases, lifts etc. needs to be provided in accordance with DRAFT DEVELOPMENT CONTROL AND PROMOTION REGULATIONS-2034 for GREATER MUMBAI

Note- Site boundary may vary from person to person as it will be based on Design problem 1 (Sub- division of Plot of India United mill no. 1)

Recommended Readings

- An introduction to Urban Housing Design
- At Home in the City- by Graham Towers
- New Urban Housing- by Hilary French
- The Architecture of Affordable Housing- by Sam Davis



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Prof. Varsha Annadate/ Prof. Anil Nandedkar /Prof. K.Thomas

Business Park at Kharghar

The increased pace of change in working habits & patterns are revolutionizing work place structures. This change is to improve competitiveness, and adopt different forms of flexibility. Companies are finding need to operate from multiple locations. Travel time reduces the efficiency of the employee and modern day employee wants to utilize every bit of the working days. Hence the concept of Business park is in demand as it houses all types and scales of offices and many office buildings are grouped together along with conference facilities, common infrastructural facilities and collaborative spaces etc. The design of these work spaces should be inspiring both for day and night.

Aim

To design a high quality, functional, inspirational and environmentally conducive and attractive workspace for the multicultural, multilingual and multigenerational workforce that provides abundant business opportunities, employment and recreation.

Objectives

- To analyze and understand the changing work patterns and thus the workspace requirements.
- To study and understand the functional requirements, infrastructural facilities of the office spaces.
- To plan the project that will provide controlled access, sufficient number of parking, promote safe interaction between vehicles and pedestrians and design spaces that facilitate efficient work, efficient interaction of workforce and develop an attractive workspace.

Site

Navi Mumbai is one of the biggest commercial hub in the mega polis. The site is located in the upcoming commercial project in Kharghar on 120 hectares of land which will be bigger than BKC in Mumbai. The site area is approx. 14.7 acres flanked by 40.00 mtrs wide access road on North West side.

Deductions: RG = 10% , Amenities = 5% and Road area = 10%
FSI is 1.5 of the Net plot area.

Basic Requirements

- Parking :
4- wheelers, 2-wheelers, buses, bicycles, drop off/pick up points

Schedule

S.no.	Content	Date of marking
1	Introduction of Design assignment	10/06/2019
2	Case study presentation Presentation in groups	20/06/2019
3	Site analysis and Conceptual sketches Ideas for site zoning	04/07/2019
4	Master plan/Site plan Showing built and unbuilt spaces, site development, details of site services, structural grid, block model	15/07/2019
5	Design development – 1 Site plan, floor plans for individual buildings, sections, structural systems, building services, site services, progressive model	29/07/2019
6	Design development – 2 Plans, elevations, sections, 3-D modeling, progressive model, structural details, construction details, building services layouts	19/08/2019
7	Prefinal Final plans, elevations, sections, 3-D modeling, progressive model, structural details, construction details, building services layouts	26/08/2019
8	Final Portfolio consisting of Final plans, final elevations, final sections, 3-D modeling, structural details, construction details, building services layouts	16/09/2019

Anil Nandekar
(PROF ANIL NANDEKAR)



[Handwritten signature]

Principal
Bharati Vidyapeeth
College of Architecture
Seepada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

ARCHITECTURAL DESIGN BRIEF - SEM I (1st YEAR 'A' DIVISION -2020-21)

Bharati Vidyapeeth College of Architecture, Navi Mumbai

Faculty: Ar. Anushri Sardeshpande, Ar. Sumitra Kadam, Ar. Aisha Siddiqui

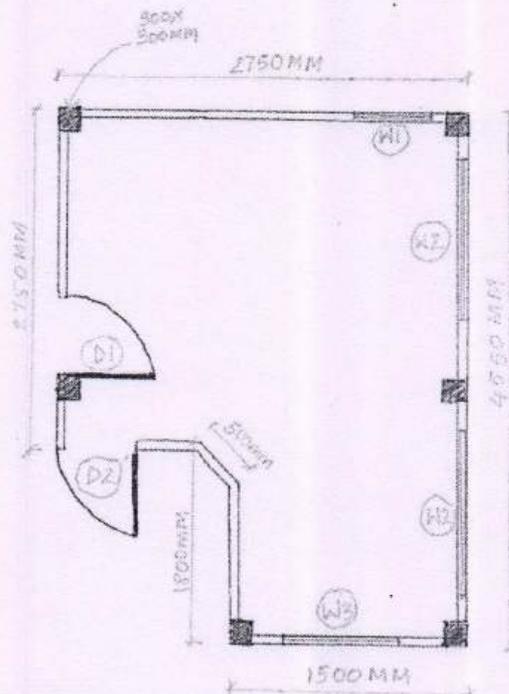
Exercise 1

Aim: To design a space for an architectural student with reference to his/her requirements.

Assignments for Base study: Anthropometry and Ergonomics

- Drawing the Vitruvian Man
- Understanding human dimensions and association with furniture
- Understanding the furniture dimensions from Time Saver and Neufert Standards.

The following plan was given to students to design the space:



The protruding columns added to the complexity in the design and thus opened various avenues for intervention by students. Material exploration was also considered apart from the understanding of scale and circulation within a space.

Deliverables: Plan, Minimum 3 Sections, Views and assembly details if particular furniture mechanism is designed by student.

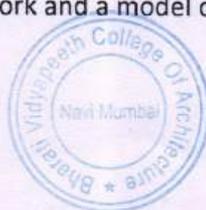
Exercise 2

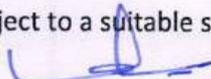
Aim: To study a popular architect's work and understand his design approaches and philosophy.

Details:

A group of students were assigned a popular Architect. The students had to individually study the Architect and understand his/her philosophy. The student had to select any project of their choice of the assigned architect and understand the design approaches, concept and scale of the project.

Deliverables: Presentation on the Architect's work and a model of the selected project to a suitable scale.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar		
Architectural Design Studio- II	Sem II-C	Year 2021
Working Title: Portable Container Design		
Faculty: Ar. Ashwini, Ar. Anupama, Ar. Snehal		

Introduction

Shipping container architecture could be defined as that type of architecture that is generally characterized by the re-use of steel shipping containers as a structural element and Architectural envelope that can host a specific function or a human activity. Often this type of architecture is termed corgotecture, a blend of conventional architecture and containers. The applicable of shipping container has greatly expanded in the recent times in credit to their strong plating, inexpensiveness, and widespread obtain ability. It was noticed recently that many people were building their houses using shipping containers for their low environ-mental impact in comparison to traditional houses made with brick and reinforced concrete structure, taking also in consideration the short time required to erect a building in this way, with future possibilities of moving these buildings to other locations or adding extra spaces or volumes.

Aim

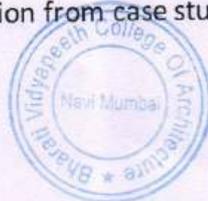
The idea is to bring awareness to the students of architecture about the upcoming trend and necessity of corgotecture with respect to current changing scenario of the architectural space with respect to decreasing in the availability of land. Specifically, to understand the role of an architect in creating spaces in the provided constrain areas to fulfill the project requirement.

Objectives:

A container home is a dwelling made from recycled steel shipping containers that may have been used as a cargo carrier on a ship, train, or truck. Because they're small and repurposed, container homes are seen as environmentally friendly. And though they come with unique costs, like permits and land ownership, they can be much cheaper than a traditional home. So by considering this, there is a large scope for container architecture in future due to its positive point of affordability and portability.

Learning objectives

- Understanding the client portfolio and preparing a mind map.
- Experimenting with a different composition of container.
- Stimulating thought process and conceptual abilities through models and sketches.
- Understanding Context and relation with ones design.
- Deriving design and program solution from case study and site analysis



(Handwritten signature)

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

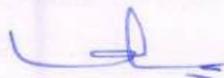
- Development of appropriate architectural forms, their grouping and composition
- Improving drawing, model making and presentation skills

Broad list of program:

1. All the students are required to finalise the character/client with justification (Why are you taking) – A character/client can be an occupation based or imagine yourself.
2. Typology- What kind of space you want to design for the character/client?
Typology can be:
 - Residence
 - Workspace
 - Any other space with justification
3. All shall consider container sizes:
3m (L) x 2.4m (B) x 2.6m (H)
Number of containers: 6
4. Containers can be transported but cannot be movable.
5. Function:
 - In case of Residential purpose, the typical rooms such as living room, kitchen, Bedroom, Toilets and additional rooms based on character's/ clients requirements or characteristics.
 - In case of workspaces, make a program in which spaces based on the occupation requirements

The structure will need to respect the following characteristics:

- Maximum 6 no. of container can be used, where the function and activity as per client portfolio is covered.
- Only a G + 2 floors;
- Architectural spaces must be flexible, portable and adaptable.
- Promote sustainable and environmentally friendly construction technologies.
- be easily self-constructed and easy portable.
- adopt solutions which favor the portability of a structure, without respect to a specific site.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Site:

The location of the project can be selected by student themselves as per the portfolio of the client and the project need

They can select any one site out of two site option of which they will do a site analysis. Study the site planning by considering the basic function, circulation, entry, exit, etc.

Notes:

- The assessment will be more oriented towards the design process followed by the student rather than the final product.
- However, an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.
- Due to online classes students will be allowed to work on software-based presentation tools.



A handwritten signature in blue ink, consisting of a stylized 'U' followed by a vertical line and a horizontal stroke.

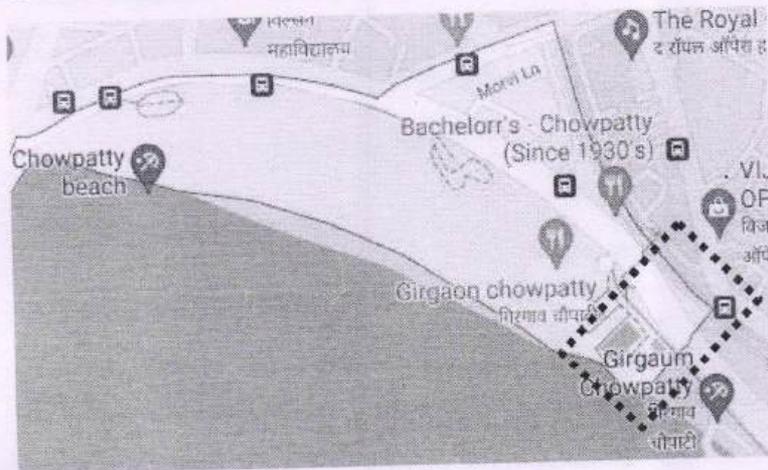
Principal 3
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE,
NAVI MUMBAI

1ST YEAR ARCHITECTURE DESIGN STUDIO
SEM 2 (JUN 2021 – AUG 2021)

Faculties: Prof. Sanskruti Rajhans, Prof. Aisha, Prof. Suchita Pawar

SITE LOCATION: GIRGHAM CHAUPATI, CHARNI ROAD, MUMBAI.



DESIGN AND OUTCOME:

Designing a weekend house for different set of clients. The house should be sufficient for the client and his/her family. The site area is restricted to 1000sqm with height of 12m. The design should have form – oriented design based on client profile. Understanding of user and their requirements.

DRAWING REQUIREMENTS:

1. Concept sheet, mind mapping and user profile.
2. Site selection and its analysis
3. Site plan - 1:250
4. Detail floor plan – 1:50
5. Roof plan – 1:50
6. Two sections – 1:50
7. Two elevation – 1:50
8. Isometric views
9. Study model – 1:100



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE,
NAVI MUMBAI

1ST YEAR ARCHITECTURE DESIGN STUDIO
SEM 2 (JUN 2021 – AUG 2021)

Faculties: Prof. Sanskruti Rajhans, Prof. Aisha, Prof. Suchita Pawar

TITLE : BUNGALOW DESIGN, MUMBAI

AIM:

To understand Space Design, Circulation and Design Development.

OBJECTIVES:

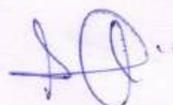
- Understanding of client requirement.
- Learning of concept development.
- Development of form as per client requirements.
- Understanding relation between forms and spaces.
- Understanding of open, semi open and close spaces.

CREATIVE ACTIVITIES:

- Mind mapping
- Concept development
- Form development through model
- Site selection and its relation with building.

UNDERSTANDING THROUGH ASSIGNMENTS:

- Mind mapping and understanding the design requirements of the client.
- Collecting objects and making composition, Converting compositions into living spaces.
- Selection of site and understanding the site surroundings by site analysis.
- Understanding the furniture dimensions from Time Saver and Neuferts Data.
- Space design assignment – Zoning, Plan, Sections, Elevations, views and sketches.
- Understanding of open and close spaces through models, sketches and plans.
- Understanding relation between site and building and form.
- Exploration and creative selection of material and hands on exercise on model making to scale.


Suchita Pawar


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar

2nd Year Architectural Design Studio

Sem 3, 2020

Guides: Mayuri, Shomika, Ashwini, Renuka, Bhavika

June - Oct 2020

Working Title: Craftsvilla-Conversations at the edge

Introduction

Being one of the most culturally and aesthetically diverse nations in the world, India has its fair share of iconic markets and vernacular houses tucked away in every corner that are a means of livelihood for many. The studio will deal with the building edges. How these edges play an important role in defining the architecture and as a result the social lifestyle. An edge primary catalyst in bringing inside outside or vice versa. This semester we will also aim to understand the effect of inbetween or transition spaces in architecture on the human being and why it becomes a space unimaginable character and potential.

Aim

The idea is to bring awareness to the students of architecture about the complexity and simplicity that inherently exists in our society. It could be buying or selling activity, formal or informal spaces, Dwelling or Market space, Preparation or display areas daily or weekly market, permanent or temporary. In today's time we need to think of the multifunctioning and multiuse of a space through the case studies we see that peoples of various cultures have been doing this with utmost ease.

The aim of this studio is to inculcate the process of critical thinking to second year architecture students through the thread of Narrative as the key to unlock the process of approaching a design

Objectives:

Design objectives would be to understand the spatial relations between all these activities to design spaces with different levels and heights. To design spaces which are enclosed, semi enclosed, covered, semi covered, open to sky and double height. To create spaces which are naturally lit and naturally ventilated and design spaces which will address the issues of people's buying and selling, pedestrian pathways and Quality of dwelling.



A handwritten signature in blue ink, consisting of a stylized cursive name.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Learning objectives

1. Understanding and preparing a pre-design strategy
2. Design a narrative as per the requirements of the day
3. Design of spaces intended for suitable activity
4. Stimulating thought process and conceptual abilities through models and sketches and different mediums
5. Built and unbuilt spaces for multiple activities for a small group of people
6. Understanding Context and relation with ones design
7. Deriving design and program solution from case study and site analysis
8. Development of appropriate architectural forms, their grouping and composition
9. Improving drawing, model making and presentation skills

Broad list of requirements:

The Selection of the art or craft has to be justified by each student. You may choose one or more professions residing in the cluster.

Each cluster will include 4 types of houses based on the area.

S	M	L	XL
50	65	80	100 sq M

Each house should contain the following facilities

1. Workspace with display (you may design a small shop)
2. Living area (multiuse or multi functioning of this space is recommended)
3. Kitchen- dining (you may choose formal or informal activities)
4. Sleeping or resting space (number of bedrooms to be decided as per the area)
5. Toilet bath (can be together or separate)

Maximum permissible floor height - 5m

Maximum permissible building height 9m from Ground level

Semi open space- 15%-30% of total built up area. (creative use of mezzanine, terraces, ottas, balconies, staircases, steps, fenestrations will be encouraged) Understanding the in between spaces and highlighting use of the edge is the most integral part of this design. Kindly pay attention to this. You may create a single court or a common courtyard, theme gardens, children play areas, sculpture gardens, plazas or pavilions.

Services



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Overhead water tank Underground water tank. Pump room, septic tank, electrical and drainage services.

Notes:

- The assessment will be more oriented towards the design process followed by the student rather than the final product.
- However an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.
- All reviews carry equal marks. Markings will not be upgraded or changed once the review date has passed. Considerable weightage of marks are for punctuality overall involvement and attendance.

Bhavika
(Ar. BHAVIKA JAIN)



A handwritten signature in blue ink, consisting of a stylized 'U' shape followed by a vertical line and a horizontal stroke.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar	
2nd Year Architectural Design Studio	Sem 4, 2021
Working Title: Women's House	
Faculty: Ar. Mayuri, Ashwini, Madhura, Vinita, Pallavi, Bhavika, Pooja, Anandi	

Introduction

"Rural development, the breaking down of barriers, a reduction in inequality, and the creation of a sustainable and stable environment all depend on the hard work which every member of society invests, both directly and indirectly, in the collective. Gender equality is crucial to the construction of an equitable society in which everyone, on the basis of their background and resources, can make a fundamental contribution to sustainable development." In order to address this, students are introduced to a competition brief floated by Kaira Loro Architecture Competition 2021. "The challenge of the competition is to design a women's house that aims to promote gender equality as a key factor in rural development. The structure must be a space dedicated to hosting activities which focus on education, raising awareness, and developing the village in the name of equality." ¹

Aim

The idea is to bring awareness to the students of architecture about the complexity that exists and re-think the design in our society. Specifically, to understand the role of an architect in creating spaces meant for creating awareness regarding gender equality and women empowerment in the society.

Objectives:

"The objective of the competition is the creation of a "Women's House" within a symbolic and environmentally friendly structure that is inspired by local traditions. A space in which associations and members of society will be able to meet and discuss the topics of equality and human rights, guaranteeing involvement and emancipation of the female community in favour of the region's social, economic, and political development. To promote these issue and safeguard women's rights, the theme of the competition is a "Women's House" which must integrate itself with the surrounding environmental and cultural context and promote the values of gender equality, reinterpreting them from the perspective of ecological and sustainable architecture that can be self-constructed with the local community." ¹

Learning objectives

- Understanding and preparing a pre-design strategy
- Stimulating thought process and conceptual abilities through models and sketches
- Understanding Context and relation with ones design
- Deriving design and program solution from case study and site analysis
- Development of appropriate architectural forms, their grouping and composition
- Improving drawing, model making and presentation skills





Principal 1
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Broad list of program as per the competition specification:

1. Management and Organization.

The structure will need to have an administrative space in order to allow for the management and organization of activities.

2. Dialogue.

One of the project's objectives is to encourage communication between institutions and associations in the area. Therefore, there will need to be a space in which to hold meetings that can accommodate a maximum of 10-15 people.

3. Collective Activities.

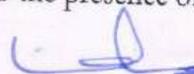
The fundamental objective of the project is to promote gender equality and human rights through the organisation of awareness raising activities, seminars, labs, and exhibitions. These activities will need to have a flexible space at their disposal, one that meets their individual needs and makes it possible for them to potentially be conducted simultaneously.

The structure will need to respect the following characteristics:

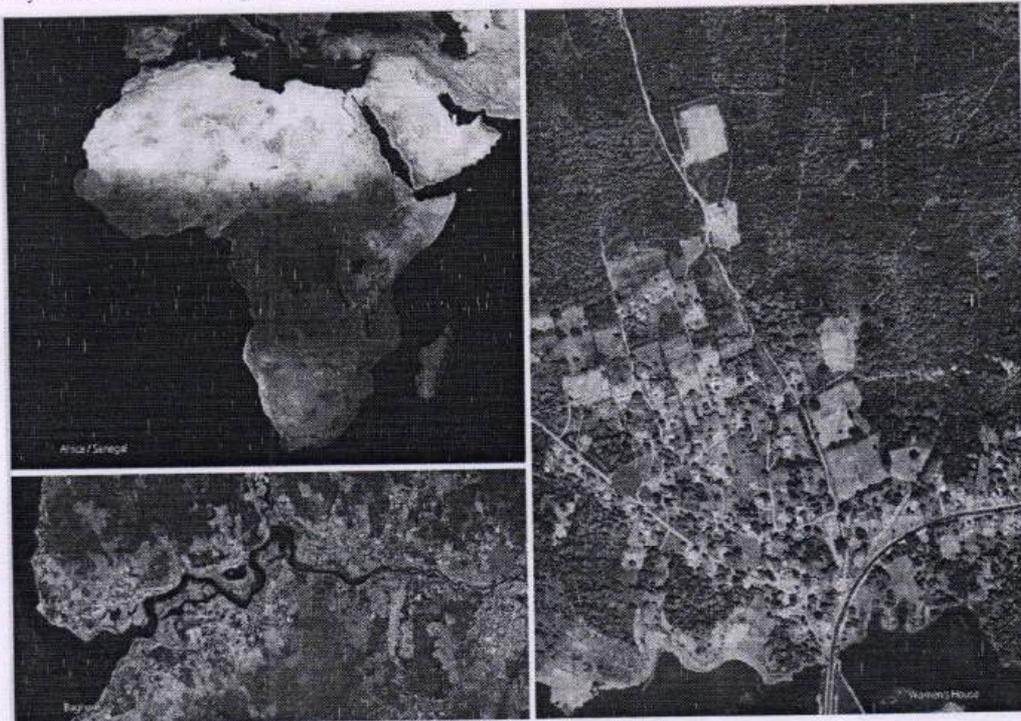
- maximum closed area of 200 square meters, where the aforementioned activities will be conducted.
- only a ground floor;
- architectural spaces must be flexible and adaptable;
- cost of construction materials must not exceed €18,000;
- favor the use of natural materials which are available in the surrounding area and the use of recycled and scrap materials.
- promote sustainable and environmentally friendly construction technologies.
- be easily self-constructed.
- adopt solutions which favor the reuse of natural resource

Site:

The location of the project is southern Senegal, a country in north-west Africa on the Atlantic coast, bordering Mauritania, Mali, Gambia, and Guinea. The "Women's House" will be built in the municipality of Baghere, bordered in the north by the Balmadou forest, in the south by Guinea Bissau, in the east by the town of Niangha, and in the south/north west by the municipalities of Simbandi and Dioudoubou. The village of Baghere has a spiritual-religious orientation due to the presence of the tomb of the famous marabout Younouss

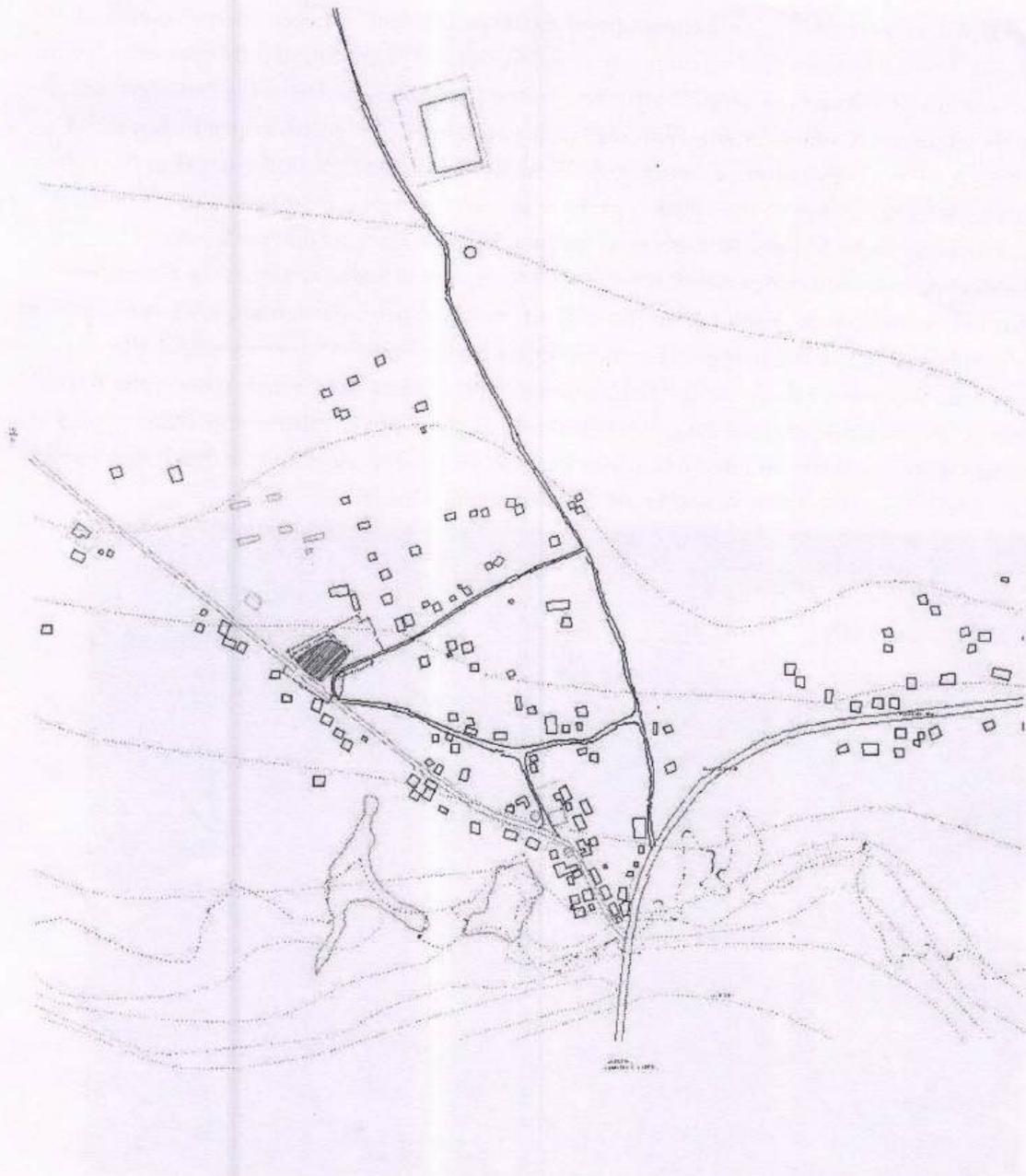

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

AÏDARA, who made a lasting contribution to the promotion of peace and prosperity in the region. From a geomorphological perspective, the terrain is predominantly clay-sand. There are a series of ferruginous tropical plateaus, formed by small lateritic rocky outcrops and small argillaceous valleys along tributaries of the Casamance river, with a slight slope and which lend themselves to rice farming. The Women's House will be constructed in the village of Baghere, along one of the village's primary axes in order to encourage its use. The ideal lot has been identified on the main road leading from Baghere to the small port of Sandinieri, from where it is possible to reach the capital of Sedhiou across the Casamance River. The ideal lot is positioned at the edge of road and has a flat terrain, with sandy-lateritic soil and with acacia and mango trees measuring a maximum of 15 metres tall. Within a radius of 600 metres there are the Baghere municipal offices, the French school, the Arabic school, the mosque, and the on-call medical service. The area measures approximately 2500 square metres and the architectural project can be positioned anywhere within it and facing any direction, as long as it adheres to the characteristics indicated.



[Handwritten signature]

Principal 3
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Baghere

Arossondissement de Simbandi Brassou

Région de Sedhiou

Senegal, Africa

12°39'45.92"N - 15°25'39.61"O

North

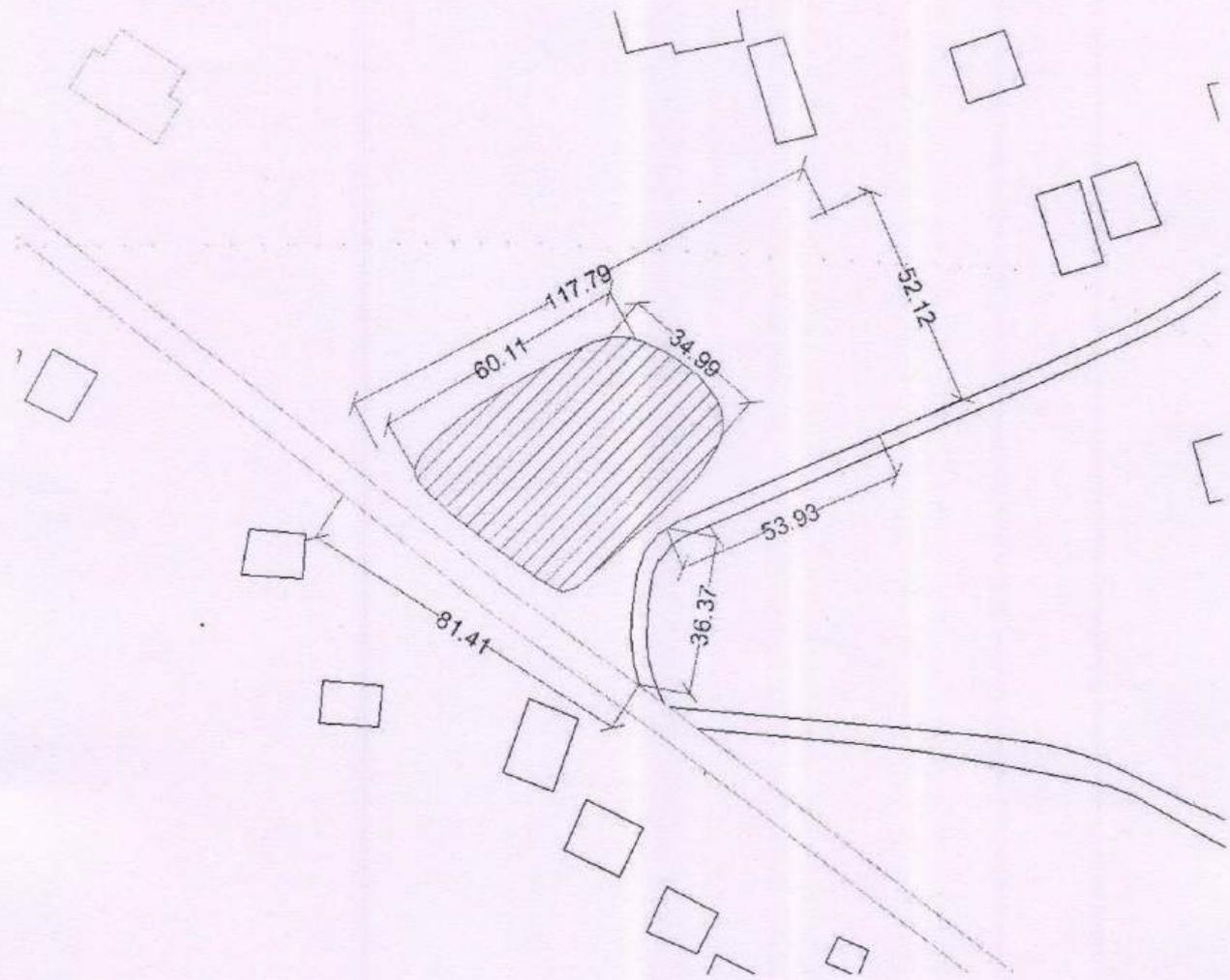


Unit: meters

Copyright

"This document are © Copyright Es and Sa o - Kara Loko Architecture
 Competition, its use is limited at the participants of the competition. A other
 different uses must be agreed with the organization.

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Notes:

- The assessment will be more oriented towards the design process followed by the student rather than the final product.
- However, an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.
- Due to online classes students will be allowed to work on software based drawing tools.
- Text quoted as (¹) is from the competition brief published by organisers.

Patil
AR. POOJA PATIL

Bhavs
Ar. BHAVIKA JAIN



Pallavi
Ar. PALLAVI DESHMUKH

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Navi Mumbai

Architectural Design Brief - III yr. A, B.Arch., 5th Semester -2020 "Cultural Centre at Bhuj"

Culture is the characteristics and knowledge of a particular group of people, encompassing language, religion, cuisine, social habits, music and arts, which gets developed over years.

Culture can be further defined as shared patterns of behaviours and interactions, cognitive constructs and understandings that are learned by socialization. Thus, it can be seen as the growth of a group identity fostered by social patterns unique to the group. In the present post-industrial world, owing to the busy lifestyle and city lives, many art forms and cultural traits are slowly vanishing. Therefore, there is an urgent need of revival and re-fostering the same in form of showcasing and teaching platforms such as 'Cultural Centres'.

The challenge:

The challenge before the students is to understand the vibrant culture and climate of the Bhuj region and utilize it to develop a design output for a 'Cultural Centre' where local artisans can exhibit their work, propagate the art form by teaching it to visitors coming from across the region or country. This centre should have the potential to attract and offer knowledge to peoples from diverse age groups and cultures.

Design process: (Due to pandemic all studies are done online mode only)

- Cultural and climatic study of the region.
- Detail study of artforms and spaces needed to perform the same.
- Studies of secondary sources: available design standards, case studies of similar work around the globe with innovative architectural features.
- Documentation of the origin, functions, identities and unique features of the selected sites.
- Framing area and space requirements as per the various case studies, Indian design standards.
- Hierarchy of space planning along with concept / thought process for design along with narratives or story board to explain concept.
- Drawings and other deliverables to further explain the concept.

Design Requirements: (Framed by students)

Approximate foot fall 300-400People

- Administrative area
- Booking counter
- Information center



A handwritten signature in blue ink, consisting of a stylized 'A' shape with a horizontal line extending to the right.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- Museum, Exhibition area (Covered /semi covered)
- Library
- Auditorium
- Amphitheater
- Various art Workshops (minimum 4no.)
- Parking (as per NBC)
- Restaurant / Cafes/Food stalls
- Stay facility (not compulsory)
- Ancillary spaces as per design concept

Deliverables:

To explain above pointers students, need to submit the following-

1. Case studies (as group submissions)
2. Documentation of the selected sites for intervention including: site and surroundings, various issues, available site opportunities, micro climate.
3. Design requirements along with area programme.
4. Concept formulation
5. Zoning and circulations with respect to concept.
6. Block plans along with concept model/ block model and views.
7. Site plan (1:200/1:250)
8. Roof Plan (1:200/1:250)
9. Site sections (1:200/1:250)
10. Detail plans along with sections, elevations (1:100)
11. construction details
12. Detailed 3d views.

Site Locations: (Plot are is maximum 3 Acre)

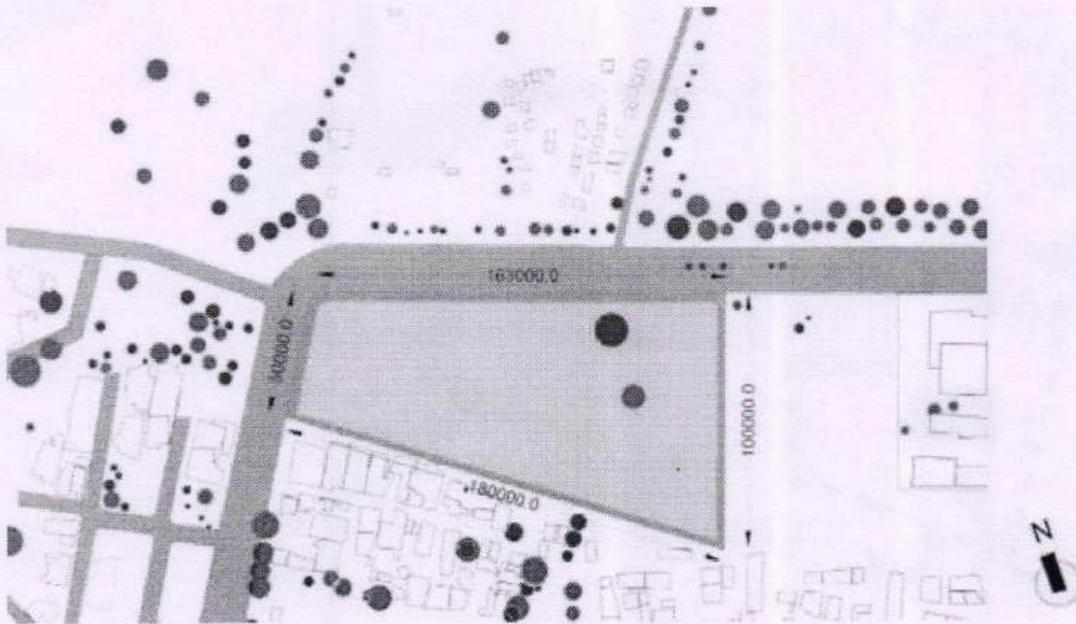
1. Near Bhujio hills, Srinagar, Bhuj



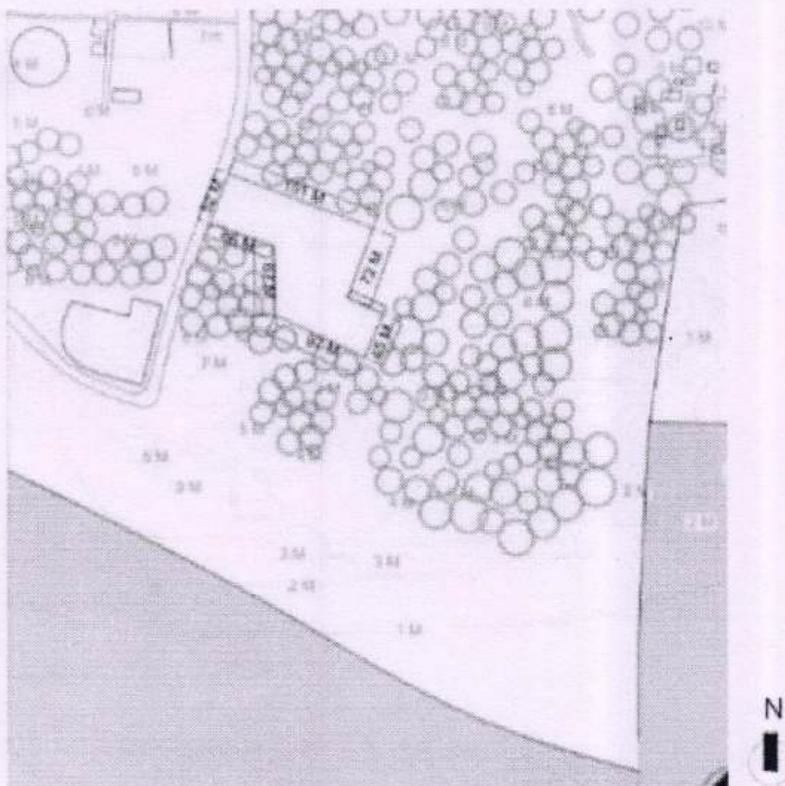
(Handwritten signature)

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

2. Near police station, Sonivad , Bhuj



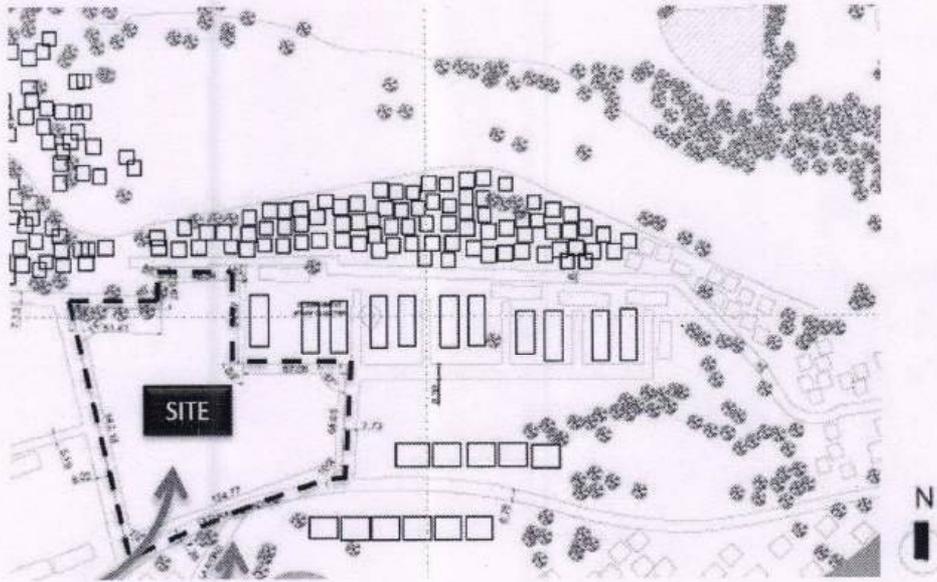
3. Near Mandvi Beach, Mandvi



(Handwritten signature)

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

4. Near Chattardi talav, Ravalwadi, Bhuj



Thank You,
Asst. Prof. Suvarna Thakare, Asst. Prof Priyanka Sinha

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar

Prof. Tejaswini H.M., Himika Lakhanpuria

3rd Year Architectural Design Studio

Sem 5 June 2020- Sept 2020

Title: CULTURAL CENTRE

Introductory Notes

This project calls for a design of a simple public building with some complexity that includes the complexity of site, topography and vegetation, climatic factors of the region, socio-cultural events, the rich history of the place and variety of strategies for sustainable design.

This project explores design solutions that harness the understanding of cultural heritage of a specific area, with a wide array of users whilst maintaining a sense of identity to the particular place.

Students explore design solutions that contribute towards preserving the rich culture and history of the place and provide the best of experiences for the users.

Site

Konkan extends throughout the western coasts of the Indian state of **Maharashtra**

It is bounded by the Western Ghats mountain range (also known as Sahyadri) in the east, the Arabian Sea in the west, the Daman Ganga River in the north and the Gangavalli River in the south. It has a diverse number of ethnic and religious communities

Location: _____

1. Sawantwadi
2. Khed (Ratnagiri north)
3. Ratnagiri City (Ratnagiri south)
4. Vengurla
5. Malvan




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Basic List of Areas

Plot Area- 3.5 – 5.5 Acres (Approx.)

F.S.I - 1

Amenity open spaces: 50 % plot area includes the following:

AREA PROGRAMME:

Activities in Cultural center:

1. Plazas/ Pavilions / entrance gateways (**character, sizes and shapes to be decided by student**)

Area for cultural activities

- Multipurpose
- exhibition halls
- Amphitheaters
- Open areas for festivals/celebrations
- Workshops
- Interactive museum / Audiovisual Room (OPTIONAL)
- Library (OPTIONAL)
- Auditorium
- Parking

Miscellaneous:

- Reception space,
- Enquiry Desk,
- fee counter




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- Administrative offices,
- Director's cabin,
- Conference room
- Security cabin

Leisure Activities:

Food court/ Cafeteria/ Restaurant

Souvenir shop

Infrastructure Facilities

1. Technical Facilities
2. Toilets as per requirements

Learning objectives

- To design, develop and create architectural spaces with consideration of socio-cultural aspect of the place in relation to the basic natural site context which impact of the experience of diverse user group in urban/suburban context.
- Understanding and preparing a programmatic brief.
- Understanding context, climate and related issues.
- Stimulating thought process and conceptual abilities through models and sketches.
- Working out a fully resolved building with respect to services, details, interiors etc.
- To understand and apply basic building byelaws.
- Improving drawing, model making and presentation skills.




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Drawing Scheme

- Site Analysis
 - Design Concept
 - Design process
 - Plans :
-
- a) Roof plan: 1:1000/ 1:500
 - b) Site plan: 1:500
 - c) Site sections elevations: 1:500
 - d) Ground floor plan: 1:250
 - e) First floor plan: 1:250
 - f) Module detail: 1:250
 - g) Views/ details
 - h) Model 1:500/1:250

Notes:

This project requires students to propose a facility accommodating the given set of spaces in urban context.

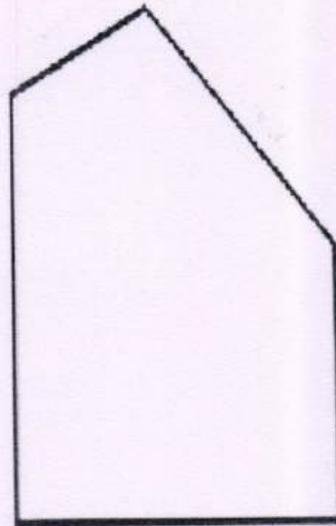
Students are to develop their own concept for the design based on their research of the area and environment. This working method is intended to have the students design in full freedom, however they will be required to make an informed response firstly to the surrounding context. Their capacity to respond architecturally and contextually to this task will form part of the basis upon which they will be marked in progression throughout the semester.




Principal
Bharati Vidyapeeth
College of Architecture
Beipada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

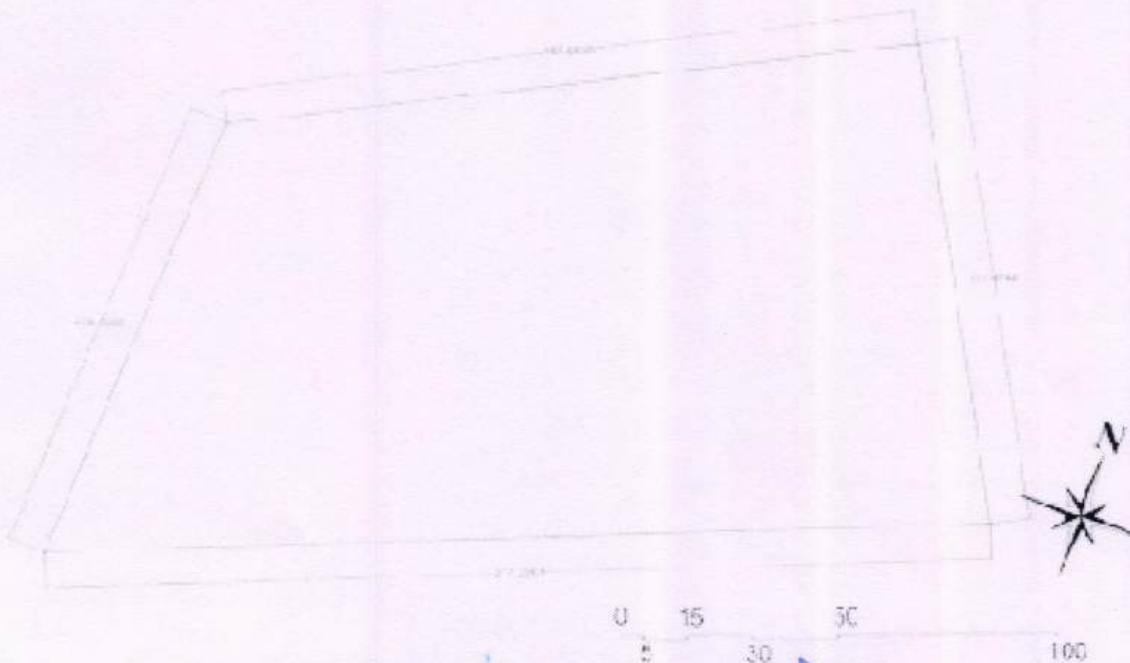
Site: Ratnagiri South

Area: 4.00 acres



Site: Malvan

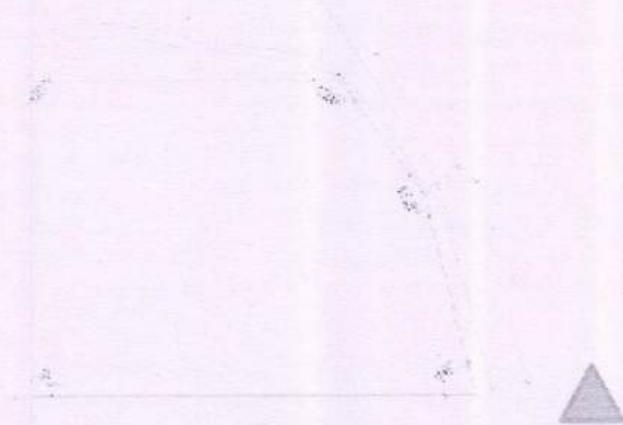
Area: 4.80 acres



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Site: Sawantwadi

Area: 5.52 acres



Site: Khed

Area: 4.5 acres




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Site: Vengurla

Area: 4.8 acres




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE

ARCHITECTURAL DESIGN BRIEF

THIRD YEAR

SEMESTER 6 (2020 - 2021)

SECTION A

AYURVEDA INSTITUTE AND HOSPITAL(OPD)

Introduction:

Ayurveda for many years is considered as "Healing of science" This Science is originated in India about 5000 years ago which is now spread worldwide and have included many principles of natural healing . The Sanskrit term of Ayurvedic means " Knowledge of life". Ayurvedic helps in maintenance of health thru close attention to balance diet, lifestyle and use of herbs. All this is done by understanding and balancing the three principle energies of the body - Vatta, Pitta and Kapha. According to Ayurvedic philosophy the entire cosmos is the interplay of energies of the five main elements Fire, Earth, Water, Space and Air.

Now, Considering the design of Ayurveda /Medical colleges in a campus , a college never exist alone but it is well planned and dependent on Hospital, staff facilities and various other relevant departments for the convience of the general public. Practical knowledge, methodological treatment and life saving techniques are also part and parcel of a Medical student. So considering these aspects the design program was formulated.

An institute design is always subjective and idolised only for Design based colleges like NID, NIFT. To break the monotomy a challenge to design medical college was visualised. Many ascepts of design like break away spaces for faculties , students, proper allocation of spaces for visitors and interaction spaces were brought to notice in the brief. So the challenge to design Bachelors of Ayurvedic Medicine and surgery (B.A.M.S) college was taken. To understand in detail, few proposals were also studied. How an Architectural form and space of medical college of urban character can transform from lifeless to more contrasting nature was the priority of design.

Design Objective:

To understand nature of Urban institutions,

To understand the context and character for urban institutions

To understand requirement of architectural forms, spaces for corresponding activities

Design Process :

Brain storming for Topic selection

Norms of Institute Design

Guidelines of AYUSH industry in Ayurvedic institute

General Norms for Services

General requirement for OPD

Climatic Analysis and site analysis and neighbourhood study

Case studies of Ayurvedic colleges in Mumbai was studied

Concept development and other drawing delivereables.



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line.

1

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

SITE: There are 3 different sites given to the students at three different locations around India. The Tenders for these sites were proposed by Ayush Industries. Considering the variety in Design as output and exploring different avenues that the site has to offer, we considered only 10 acres of land as Phase #1 construction which consist of Hospital , Administration, Academic Block, Boys and Girls hostel, Canteen and Yoga Hall. The Phase #2 Construction shall have Auditorium, Diet centre, Residential Quarters (II, III, IV, V), Common Mess, Memorial Hall, Cottages and VIP Cottages.

1. The first site is in Dhargal, Pernem Taluka, Goa. The Goa government has approved the transfer a portion of land parcel, acquired to build sports city and cricket stadium, to the AYUSH ministry to set up Ayurveda , Yoga and Naturopathy. Out of 50 acres of land planned for (All Indian Institute of Ayurveda, Yoga and Naturopathy), approx 10 acres was taken by students to design Ayurvedic Institute and Hospital as a part of Phase #1 Construction.



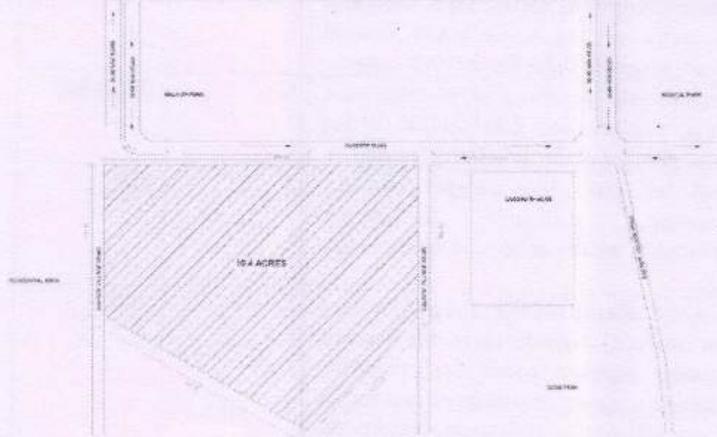
2. The second site chosen is in Kondwa , Pune. The project site has good connectivity via. Saswad-Bopde Pune Road which is adjacent to the project site and NH-4 is approx. 5.95 km towards West and SH-114 is approx. 4.01 km towards West. The total area of the site is 25 acres approx (National Institute of Naturopathy), out of which 10 acres of plot is considered in Phase #1 construction.



(Handwritten signature)

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

3. The third site chosen is in at sector 5, Shri Mata Mansa Devi shrine board , Panchkula , Haryana. The site is located near National Highway NH-7 is a highway connecting Fazika (Punjab) to mana (Uttarakhand). The site area is 50 acres approx for National Institute of Ayurveda , yoga and naturopathy AND is a extension of nia Jaipur .



TENTATIVE PROGRAM REQUIREMENTS:

COURSES FOR AYURVEDIC COLLEGE:		
Under Graduate (4.5 years):	Bachelors in Naturopathy and yogic sciences (BNYS)-	Intake capacity 60 students.
Post Graduate (2 years):	MD in Naturopathy	20 students
	MD in Yoga Therapy	20 students
	MD in Acupuncture and energy medicine	20 students
PG Diploma/ Fellowship programs Min duration-1 year, Max duration-3 years	Fellowship in Geriatric care	10 students
	Fellowship in Hydrotherapy	10 students
	Fellowship in Public Health	10 students
	Fellowship in Manipulative therapy	10 students
	Fellowship in Maternal Care	10 students
	Fellowship in Spa and medical tourism	10 students
	Fellowship in Clinical Research	10 students
	Fellowship in Acupuncture	10 students
	Fellowship in Naturopathic Nutrition	10 students
	Fellowship in Lifestyle Medicine	10 students
PHD programs (3 years)	PHD in Naturopathy and Yoga	
	PHD in Gandhian Philosophy	
Skill Development (Para Medical Courses)	intake 200 students (twice in a year)	



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

DESIGN REQUIREMENT

1	ADMINISTRATIVE SECTION	Principal's room, Personal Assistant room, Reception, Visitor's lounge, Staff Committee room, clerks room, cash and accounts sections, Record room, Central store, separate toilet for Gents & Ladies.	1	150
2	LECTURE HALLS	Lecture halls- Audio visual Teaching aids, Fans, Coolers and comfortable sitting arrangement preferably Theatre type.	5	80*5=400
3	SEMINAR OR CONFERENCE OR EXAMINATION HALL	Hall for 400 /500 people used for Meeting, seminars, conference, symposia, examination and counseling's etc.	1	550
4	CENTRAL LIBRARY	For 50 Students seating capacity, location for shelves, almirah, place for keeping stocks, reading room for teachers, Librarians room, photocopier, computer room with printer and internet facilitates. Approx 10000 books of different titles of Ayurveda, Modern medicine and allied science	1	100
5	TEACHING DEPARTMENTS			
I	SANSKRIT DEPARTMENT	Samhita and siddhanta Department – Departmental Library, small office, working accommodation for non-teaching staff, a dissection hall/ laboratory / museum	1	50
II	BODY ANATOMY	Rachna sharer Department- Lockers, wash basin, Embalming room with a storage tank or freezer for four dead bodies, Musuem	1	125
III	Study of the normal functions of body during rest and activity.	Kriya Sharir Department- Laboratory with optional facility for bio- chemistry testing	1	75
IV	Study of medicinal herbs & drugs, their origin, nature, properties & effects upon human beings.	Dravyaguna Department and herbarium and Drvyaguna museum , Pharmacognosy and pharmacology labs	1	125
V	Bhaishajya kalpana is the pharmaceutical department dealing with various types of medicinal preparations, their formulations, dosage etc. told in Ayurveda.	Rasa Shastra and Bhaishajya kalpana department- Museum, laboratory,	1	75
VI	Roga Nidan evam Vikriti Vigyan deals with the factors which are essential to understand disease process as well as the diagnosis of disease. providing facilities for investigations of Blood, Urine, Stool. (Pathology)	Roganidan evam vikriti vigan department	1	75



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

VII	Swasthavritta is the branch of Ayurveda which plays an important role in health promotion and prevention of the diseases, through holistic approach of Diet, Life style modification and Achar Rasayana (Ethical practices). Department also emphasizes practice of Yoga & Naturopathy	Swasthavritta and yoga department- The Department is well equipped with departmental library, museum, models, visual aids of Yogasana, Pranayama and charts for demonstration and a separate Spacious Yoga hall for practical training for students. Department has Swasthrakshana OPD in Hospital with practical approach towards Yoga, Nisargopachara and Pathyapathya Ahar (Diet Consultancy).	1	75
VIII	Agada Tantra is a branch of Ayurveda which deals with identification, prevention, diagnosis and treatment of various Visha conditions (Animate, Inanimate, Subclinical, Residual and Cumulative toxicological presentation).	Agada Tantra evam vidhi vinayak depatement and museum	1	50
IX	Kayachikitsa is the first branch of ashtang ayurved that deals with general medicine, where kaya means body and chikitsa means treatment.	Kayachikitsa department	1	75
X	Panchakarma is the most famous detoxification process of Ayurveda, restoring youth with the help of medicated oils. ... Panchakarma includes five natural methods of purgation or elimination, giving the body an intensively detoxifying the body, while balancing the three doshas: Vata, Pitta and Kapha.	Panchakarma department - Droni, massage table, fibre, Measuring jar, oil heating machine, Akshi Tarpana, Steam cabinet, Deluxe sauna cabin, Infrared bath cabin, Insulated Portable, sarvanga bashpa sweda, Nadi Swedna tantra, avagaha sweda, Insulated drava swedana yantra, sahasra dhara, sarvanga dhara yantra, Infrared lamp, Shridhara, Weighing machine, Vamana,	1	37
XI	Shalya means that which creats pain or agony to the body or mind and Shalyatantra is the branch which deals with the technique by which this cause (Shalya) is removed. Shalyatantra Department can divided into 3 major areas. 1) Surgery: Treatments which requires Surgical & Para surgical Procedures.	Shalya department and museum and tutorial room and experimental surgery laboratory	1	75
XII	Shalakya Tantra which is one of the eight classical branches of Ayurveda	Shalakya Department with Museum and Tutorial room	1	75




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

	deals with the description and treatment of organs seated above the clavicle region like ear, nose, throat, eye and teeth			
XIII	Prasuti-tantra deals with complete knowledge of diagnosis, investigation and treatment in antenatal care, pregnancy related complications, delivery and post delivery care as per Ayurveda and modern context. Stri-roga deals with Ayurved management of gynaecological diseases as well as maintenance of reproductive health.	Prasuti evam stri roga department, museum, tutorial room	1	50
IVX	Kaumarbhritiya is one of the Most Important Branch of Ayurveda dealing with the care of the child from the Conception to till the Maturity It is one of the Eight Branches (Astang) of Ayurveda, which deals with the child care both preventive and curative.	Kaumarbhritiya(balroga) department and museum and tutorial room	1	38
6	Pharmacy and Quality Testing Lab		1	100
7	Common Girls & Boys Room		2	50
8	Canteen	As separate or Combined	1	50
9	OUT- PATIENT DEPARTMENT			350
		Kayachikitsa OPD		
		Shalya OPD with Toilet, wash Basin & Examination Room		
		Shalakya Tantra OPD		
		Stri Roga evam Prasooti Tantra OPD with Toilet & Examination room		
		Kaumarbhritiya (Balrog) OPD		
		Swasthavrittaevum Yoga OPD with Demostration area		
		Atyayika (Casualty) section with Toilet and wash basin		
		Dressing & First air room, Kshar Sutra room		
		Dispensary		
		Waiting space for patients		
		Store		
10	TOILETS	Separate Toilets for Boys & Girls on each floor, Separate Toilet for Staff.	As required.	
11	Additional 30 % for passages, Lobby, waiting areas for OPD, Toilets wherever necessary.			

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

SITE PLAN / MASTER LAYOUT

for PHASE- I will include the following showing Parking, Road Layout, Pavement, Landscape , Outdoor Play areas etc.

BUILT – UP SPACES

1	Academic Block	2400 + 750sq mt =3150 sq mt
2	OPD Block separate	300 + 150 = 450 sq mt
3	Hospital Building +Yoga	9400 sq mt
4	Boys & Girls Hostel	3450 sq mt
5	Common Canteen	800 sq mt
6	Admin Block (For Hospital & OPD)	1850 sq mt
TOTAL		19100 SQ MT =4.71 ACRES
TOTAL SITE AREA (Plot area)		40468.6 sq mt = 10 ACRES (approx)

NON – BUILT UP SPACES

	Herbal Garden	2500 sq mt
	Out Door Play area	As per design

OTHER REQUIREMENTS

F.S.I. - 1.0

Bylaws – As per byelaws applicable of that area

Maximum built coverage on ground – 50% of Plot area which includes:

Structure proposed will be Maximum height of G+3 building

Parking Requirement : Cars- 60 Two Wheeler- 100 Ambulance-2 Nos.

***Variation in area program based on their study conclusion and design.**



7

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

SECTION B

BRIEF -1 LAW INSTITUTE

INTRODUCTION

Law is a system of rules created and enforced through social or governmental institutions to regulate behaviour, with its precise definition a matter of longstanding debate. It has been variously described as a science and the art of justice. A law school is an institution specializing in legal education, usually involved as part of a process for becoming a lawyer within a given jurisdiction.

In India, legal education has been traditionally offered as a three-year graduate degree. Law degrees are granted and conferred in terms of the Advocates Act, 1961, which is a law passed by the Parliament both on the aspect of legal education and also the regulation of the conduct of the legal profession. Under the act, the Bar Council of India is the supreme regulatory body to regulate the legal profession in India and also to ensure the compliance of the laws and maintenance of professional standards by the legal profession in the country.

AIM

- To design a law institute in Palghar. Keeping in mind the Standard requirements, DCR and bar council's rules and regulation.

OBJECTIVES

- To understand all users and their requirements.
- To understand the functioning of spaces, essential in a law institute.
- To create an engaging environment for students to develop their critical thinking.
- To create an active landscape with apt recreational spaces for users.

DESIGN PROCESS

Case studies of law schools and detailed thematic study of Palghar, Maharashtra.

Site analysis and framing the area requirements with reference to the case study, thematic study and design standards.

Recently the state government has approved seven new law colleges under the University of Mumbai including one in the city, **one in Palghar** and three in Thane.

The design brief puts an emphasis on the understanding of spaces and their requirements and functions.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

COURSES OFFERED BY LAW INSTITUTE

COURSES OFFERED	DURATION	INTAKE	TOTAL NO. OF STUDENTS	NO. OF CLASSROOMS
LLB	3YRS	60	3 X 60 = 180	3
BA-LLB	5YRS	60	5 X 60 = 300	5
LLM	2YRS	40	2 X 40 = 80	2
PHD IN LAW	3YRS	20	3 X 20 = 60	3
-	-	-	TOTAL = 620	TOTAL CLASSROOM = 13

BASIC DESIGN REQUIREMENT AND AREA PROGRAMME

NAME OF AREA	MIN AREA REQ.	CAPACITY
ADMIN - PRINCIPAL CABIN AND CONFERENCE ROOM - OFFICE - ISSUE COUNTER - CONSULTANCY ROOM - DOCUMENTATION ROOM	50 SQ.M 40 SQ.M 40 SQ.M 15 SQ.M 14 SQ.M	
CLASSROOM - GENERAL CLASSROOM - MOOT COURT ROOM - COMPUTER LAB	135 SQ.M (X 13) 135 SQ.M (X 1) 55 SQ.M (X 1)	60 30
STAFF ROOM - UNDERGRADUATE - POST GRADUATE	10 SQ.M (X 2) 10 SQ.M (X 1)	10
LIBRARY - READING SPACE - STACKING SPACE - LIBRARIAN ROOM	166.5 SQ.M 28 SQ.M	90 2 OR 3
ASSEMBLY HALL - SEATING SPACE - STAGE	200 -250 SQ.M 100 SQ.M	200 - 250
CAFETERIA - SEATING SPACE - KITCHEN	80 SQ.M	120



(Handwritten signature)

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

HOSTEL	- BOYS ROOM	9.5 SQ.M (X 20)	60
	- GIRLS ROM	9.5 SQ.M (X 30)	90
	- MESS - SEATING SPACE	80 SQ.M	110

PARKING

ONE PARKING FOR EVERY 100 SQ.M BUILT-UP AREA (INSTITUTIONS)

- FOUR-WHEELER = 33
- TWO-WHEELER = 66

TOILET REQUIREMENTS

SR. NO.	Fitments	For Boys	For Girls	Note
1.	Water-closets	1 per 8 pupils or part thereof	1 per 6 pupils or part thereof	---
2.	Ablution taps	1 in each water-closet	1 in each water-closet	---
3.	Urinals	1 per 25 pupils or part thereof	Squatting plate urinals 1 per 25 pupils or part thereof	1 water tap with draining arrangements shall be provided for every 50 pupils or part thereof in the vicinity of water-closets and urinals
4.	Washbasins	1 for every 8 pupils or part thereof	1 for every 6 pupils or part thereof	---
5.	Baths	1 for every 8 pupils or part thereof	1 for every 6 pupils or part thereof	---
6.	Drinking water fountains	1 for every 50 pupils or part thereof	1 for every 50 pupils or part thereof	---
7.	Cleaner's sink	---	---	1 per floor minimum

TOILET REQUIREMENTS AS PER INDIAN STANDARDS

SR. NO.	Fitments	For Boys	For Girls	Note
---------	----------	----------	-----------	------



AREA REQUIREMENT			
No.	Name of area	Overall min area (without circulation)	Capacity
1	Admin Area	75 sqm	-
2	Canteen	140 sqm	110
3	Ladies Common Room	16 sqm	4
4	Library	205 sqm	202
5	Classroom	38 sqm	60
		26 sqm	40
6	Av room	38 sqm	60
7	Convocation room	62 sqm	200+
8	Conference room	13 sqm	15
9	Documentation room	38 sqm	12
10	Repository room	N.D. (design oriented)	N.D.
11	Staff room	N.D.	N.D.
LABORATORIES	Centre for computer application in archaeology	145 sqm	60
	Archaeological chemistry	46 sqm	12
	Palaeontology laboratory	56 sqm	12
	Palaeobotany laboratory	49 sqm	12
	Palynology/ petrography laboratory	47 sqm	12
	Anthropology laboratory	44 sqm	12
	Sedimentology and geomorphology laboratory	46 sqm	12

AREA REQUIREMENT				
No.	Name of area	Description	Overall min area (without circulation)	Capacity
MUSEUMS	19	Prehistory gallery	It exhibits the story of human evolution as pieced together from tools, fossils and art which prehistoric populations left behind.	N.D. (depends on the individual design and the no. of visitors) For calculation purpose, lets assume minimum area required for per museum should be more than 200 sqm Total area= 1600 sqm
	20	Protohistory gallery	It exhibits large storage jars, potters kiln, pots, stone tools, copper objects, a few Harappan material, and information of ancient burial practice along with skeletons.	
	21	Megalithic gallery	It exhibits antiquities recovered from the excavations carried out in the Vidarbha region, Maharashtra dating back to c. 800 BC.	
	22	Early history gallery	It exhibits excavations of early historic sites and excavations carried out at various sites in India.	
	23	Art and architecture gallery	It exhibits the plaster cast replicas of important sculptures housed in the National Museum, Delhi, Mathura State Museum, and Gujari Mahal Museum, Gwalior, along with a few original stone sculptures from Ganga Valley.	
	24	Epiigraphy and numismatic gallery	It exhibits the study of ancient inscriptions.	
	25	Ethnoarchaeology gallery	It exhibits the study of social, economic and linguistic aspects of a living society of a limited geographical area.	
	26	Maritime gallery	The aim of this museum to have awareness of our seas and rekindle maritime consciousness and pride in our people.	

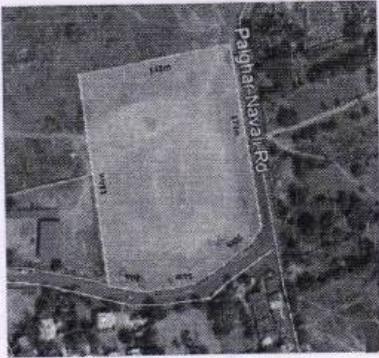
AREA REQUIREMENT				
No.	Name of area	Spaces	Overall min area (without circulation)	Capacity
27	Rooms	Single bed	38 sqm	15
		Toilet		
		Double Bed	63 sqm	30
		Toilet		
28	Mess	Kitchen + Counter	93 sqm	45
		Seating		
29	Warden	Office	6 sqm	1
		Bed		
30	Common room	Games room	42 sqm	40
		Storage		
		Tv room		
31	Common Toilet	Toilet	45 sqm	15
TOTAL AREA = 405 SQM				87
FOR BOTH BOYS AND GIRLS HOSTEL MIN AREA MUST BE 810 SQM				

- TOTAL CARPET AREA CALCULATED=3825x 2= 7650 SQM
- TOTAL CALCULATED BUILT-UP AREA=9180SQM
- SINCE, FSI IS 1, BUILT UP AREA WILL BE EQUAL TO THE SITE AREA.
- HENCE, THE MINIMUM REQUIRED SITE AREA WILL BE 9180SQM= 2.27 ACRES.
- THE SITE WILL ALSO INCLUDE VARIOUS OPEN SPACES, PLAYGROUNDS, LANDSCAPINGS AND PARKING SPACES.
- HENCE, APPROXIMATELY 5-6 ACRES OF AREA IS REQUIRED FOR DESIGNING AN ARCHAEOLOGY INSTITUTE.



(Handwritten signature)

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



SITE LOCATION - opposite to Jain temple, Vevoor, Palghar

SITE AREA - 6 acres

Site comes under semi-public and public area in DP.

SOURCE –

PROPOSAL FOR LAW INSTITUTE -

https://www.hindustantimes.com/mumbai-news/government-approves-7-new-law-colleges-under-university-of-mumbai-as-llb-finds-more-takers/story-Wiek4JtCrXNb37GNVNB9mM_amp.html

DP - <https://dtp.maharashtra.gov.in/en/content/development-plan-palghar>

CASE STUDY FOR LAW INSTITUTE -

<https://drive.google.com/drive/folders/1GjuBiEXSDCvXYEtWsuTXmrBdGiXK6uX?usp=sharin>

B

BRIEF-2 **Institute of Archelogy and Museology**

Introduction:

India being rich in its culture have historical remains since decades has a need to interpret and learn about them. Archaeology is fundamentally the study of humanity and its past. The Institute of Archaeology amidst along with the work at historical sites, with a study of museology, exhibiting the exploration of the ancient history of the country. The primary objective of the course is to study past human cultures through surveys, identification, and excavation of historical sites.

Archaeology and Museology:

Archaeology is interlinked with 4 straightography namely cultural straightography, Letho-Straightography, Bio-Straightography, and Chrono-Straightography. Cultural straightography includes human culture, its habitat, and its sequence. Letho- Straightography involves the study of natural material like soil, sediment, and many more. Bio-Straightography includes the study of plants and animals and all living organisms also helps to develop Paleo-

12

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Environment. Chrono-Straightography includes the study of the age of every soil/sample material layer.

Museology associates administrating museums aspects of history, research, and archiving that includes the combination of research and public relations. A communication platform that creates a direct impact on the visitors about the decades of research exhibited in museums.

Why Navi Mumbai?

Archaeology in India has progressively changed from antiquarian pursuit to rigorous science. Mumbai is India's most-populous city located on Maharashtra's coast, also prolonged rich in culture and heritage background. Apart from being a business and trade metropolis, Navi Mumbai is an educational hub being home to many Universities and Research Institutes, despite that it has urged for an Archaeological Institute. Navi Mumbai - a planned township, and a developing region has scope for many upcoming new institutional structures, projects to come up as well as space for the environment to grow. Ghansoli being the current area for advancement is one of the favorable location for Institutional sector.

Aim / Objectives:

- To understand the functioning and administration of an Institute.
- To interpret the technology required & fulfilling their needs creating an appropriate infrastructural environment.
- To understand and maintain interlink between the labs and transition spaces.
- To understand and design the spaces in relation to educational aspect & to encourage and promote the development in all aspects of archaeology.

Courses:

COURSE	DURATION	INTAKE
B.A. ARCHAEOLOGY	3 YEARS	60
B.A MUSEOLOGY	3 YEARS	40
M.A. ARCHAEOLOGY	2 YEARS	40
M.A. MUSEOLOGY	2 YEARS	25
M.Phil	1.5 YEARS	30
P.H.D	5 YEARS	25
DIPLOMA IN UNDERWATER ARCHAEOLOGY	1 YEAR	50

Min Total Faculties = 80 People (Teaching & Non-Teaching)

Min Student Count= 590 People

Min Visitors Count= 100 People



15

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design Requirement:

- Administration Office
- Canteen
- Classroom
- A.V Room
- Library
- Conference Room
- Documentation Room
- Repository Room
- Staff Room
- Ladies Common Room

Laboratories:

- Center for Computer application in Archaeology
- Archaeological Chemistry
- Paleontology laboratories
- Paleobotany laboratory
- Palynology / petrography laboratory
- Anthropology laboratory
- Sedimentology & Geomorphology laboratory

Galleries:

- Prehistory gallery
- Protohistory gallery
- Megalithic gallery
- Early History gallery
- Art and Architecture gallery
- Epigraphy & Numismatics gallery
- Ethnoarchaeology gallery
- Maritime gallery

Hostel (boys & girls)



- SECURITY STAFF- 6 NOS.
- CLEANING (JANITOR) STAFF- 10 NOS.
- EATERY STAFF (CANTEEN, MESS, ETC) - 10 NOS.
- VISITORS- 20 - 30 NOS.
- STUDENTS- 640 NOS.

BASIC LIST OF AREAS

PLOT AREA- 10 ACRES (40,000 SQ M.)

F.S.I – 1

GROUND COVERAGE = 14,000 (35%) PLINTH TO MUMTY LEVEL = 15M (MAX)

0.9 M PLINTH LEVEL (MAX) BUILT UP - 40,000 SQ. M (50%) RECREATIONAL AREA - 10%

AMENITY OPEN SPACES: 65 % PLOT AREA INCLUDES THE FOLLOWING:

AREA PROGRAMME:

INSTITUTIONAL SPACES:

1. PLAZAS/ ENTRANCE GATEWAYS (CHARACTER, SIZES AND SHAPES TO BE DECIDED BY STUDENT) 550 sq.m (140)

- WORKSHOPS 150 sq.m (50)
- STORAGE AREAS
- SEMINAR/ LECTURE HALLS 60 sq.m (40)
- AUDIOVISUAL ROOM (OPTIONAL)
- VR ROOMS (OPTIONAL)
- LIBRARY 300 sq.m (75)
- AUDITORIUM 1000sq.m (SEATINGS - 400- 500)
- PLANETARIUM (OPTIONAL)

- PARKING -

TOTAL

4 WHEELER - 90

2 WHEELERS - 80

- ASTRONOMICAL INSTRUMENTATION LABORATORY 300sq.m (70)
- THEORETICAL ASTROPHYSICS LABORATORY 100 sq.m (25)
- ASTRONOMICAL OBSERVATORIES
- RADIO OBSERVATORIES 500 sq.m (120)
- COMPUTER LABORATORY 500 sq.m (120)
- CLASSROOMS 100 sq.m (25)
- ENGINEERS CABIN/ CHANGING ROOM 35 sq. m.

ADMINISTRATION:

- RECEPTION SPACE, 30 sq.m (5)
- ENQUIRY DESK, 15 sq.m (4)
- ADMINISTRATIVE OFFICES, 36 sq.m (10)
- PRINCIPAL CABIN 50 sq.m (12)



(Handwritten signature)

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- CONFERENCE ROOM 40 sq.m (10)
- SECURITY CABIN 10 sq.m (2)
- WAITING AREA 35 sq.m (10)
- STAFF ROOM

LEISURE ACTIVITIES:

- CAFETERIA/ PANTRY 800 sq.m (200)
- OPEN AREAS

INFRASTRUCTURE FACILITIES:

- TECHNICAL FACILITIES
- TOILETS AS PER REQUIREMENTS BOY - 8 PEOPLE/ TOILET
GIRLS - 6 PEOPLE/ TOILET
BATHROOM 10 PEOPLE / TOILET

- HOSTELS

BACHELORS - 160 STUDENTS (80 GIRLS + 80 BOYS)

MASTERS - 40 STUDENTS (20 GIRLS + 20 BOYS)

PHD - 20 STUDENTS (10 GIRLS + 10 BOYS)

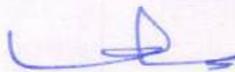
STAFF - 15 - 20 PERSONS (DECIDED BY THE STUDENT)

LEARNING OBJECTIVES

- o TO DESIGN, DEVELOP AND CREATE ARCHITECTURAL SPACES WITH CONSIDERATION OF THE PLACE IN RELATION TO THE BASIC NATURAL SITE CONTEXT WHICH IMPACT OF THE EXPERIENCE OF DIVERSE USER GROUP IN URBAN CONTEXT.
- o UNDERSTANDING AND PREPARING A PROGRAMMATIC BRIEF.
- o UNDERSTANDING CONTEXT, CLIMATE AND RELATED ISSUES.
- o STIMULATING THOUGHT PROCESS AND CONCEPTUAL ABILITIES THROUGH MODELS AND SKETCHES.
- o WORKING OUT A FULLY RESOLVED BUILDING WITH RESPECT TO SERVICES, DETAILS, INTERIORS ETC.
- o TO UNDERSTAND AND APPLY BASIC BUILDING BYELAWS.
- o IMPROVING DRAWING, MODEL MAKING AND PRESENTATION SKILLS.

DRAWING SCHEME

- SITE ANALYSIS
- DESIGN CONCEPT
- DESIGN PROCESS
- PLANS-
- ROOF PLAN: 1:1000/ 1:500
- SITE PLAN: 1:500



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- GROUND FLOOR PLAN: 1:250
- FIRST FLOOR PLAN: 1:250
- SITE SECTIONS ELEVATIONS: 1:500
- MODULE DETAIL: 1:250
- VIEWS/ DETAILS
- MODEL 1:500/1:250

SECTION C

BRIEF-2

CULINARY ARTS INSTITUTE

Introductory Notes

This project calls for a design of a simple public building with some complexity that includes the complexity of site, topography and vegetation, climatic factors of the region, socio-cultural events, the rich history of the place and variety of strategies for sustainable design.

SITE:

LOCATION: TIRUPATI, ANDHRA PRADESH
 AREA: 9.89 ACRE
 SITE FOOTFALL: 650-700.
 INFO:...

Basic List of Areas

Plot Area- 9.89 ACRES
 F.S.I -

Amenity open spaces: 50 % plot area includes the following:

AREA PROGRAMME:

Intake per year: **240 students**

(540 students in total)

- BA in Culinary Arts (3 years)- 20 per division(3 divisions)
- BSc in Culinary Science (3 years)- 20 per division (3 divisions)
- Diploma in Bakery and Patisserie (1 year)- 20 per division (2 divisions)
- Diploma in Food Production (1 year 6 months)- 20 per division (2 divisions)
- Post Graduate Diploma in Culinary Arts (1 year)- 20 per batch
- Post Graduate Diploma Bakery and Confectionery (1 year 6 months)- 20 per batch



[Handwritten Signature]

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Activities in Culinary Arts Institute: (minimum requirements)

1. Classrooms- 28(maximum): 50 m² per classroom (minimum area)
2. Kitchen Labs - 150 m²
 - i. Foundation (Basic) kitchen lab
 - ii. Advance kitchen lab
 - iii. Patisserie lab
 - iv. Larder lab
 - v. Bulk kitchen lab
 - vi. Bakery lab
 - vii. Training restaurant- 200 m²
 - viii. Demo kitchen lab
3. Storage Area
4. Computer Lab- 150 m²
5. Library

Miscellaneous:

1. Admin office- 80 m²
2. Reception- 30 m²
3. Principal's office- 30 m²
4. Staff room- 100 m²
5. Security cabin- 10 m²
6. Conference room- 30 m²
7. Auditorium (optional) - 800 m²/Seminar Hall (optional)- 350 m²
8. Amphitheatre (optional)
9. Hostels- Girls- 80 (maximum) , Boys- 120 (maximum)
10. Staff Quarters and Guest Room- 18 rooms (maximum)
11. Toilets- 1.5 m² per person requirement
12. Parking- (minimum)
 - 50: four wheeler (3m x 5m)
 - 100: two wheeler (2m x 1.5m)
1. Generator room-50m²
2. Pump room-30m²
3. Control Room (CCTV)- (optional)
4. Stormwater Management -30m²
5. Open spaces

Leisure Activities:

1. Cafeteria
2. Playground
3. Restaurant (option)
4. Cultivation Area (optional)



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Learning objectives

- To design, develop and create architectural spaces with consideration of socio-cultural aspects of the place in relation to the basic natural site context which impact the experience of diverse user groups in urban/suburban context.
- Understanding and preparing a programmatic brief.
- Understanding context, climate and related issues.
- Stimulating thought process and conceptual abilities through models and sketches.
- Working out a fully resolved building with respect to services, details, interiors etc.
- To understand and apply basic building byelaws.
- Improving drawing, model making and presentation skills.

Drawing Scheme

- Site Analysis
- Design Concept
- Design process
- Plans :
 - a. Roof plan: 1:1000/ 1:500
 - b. Site plan: 1:500
 - c. Site sections elevations: 1:500
 - d. Ground floor plan: 1:250
 - e. First floor plan: 1:250
 - f. Module detail: 1:250
 - g. Views/ details
 - h. Model 1:500/1:250

Notes:

This project requires students to propose a facility accommodating the given set of spaces in urban context.

Students are to develop their own concept for the design based on their research of the area and environment. This working method is intended to have the students design in full freedom, however they will be required to make an informed response firstly to the surrounding context. Their capacity to respond architecturally and contextually to this task will form part of the basis upon which they will be marked in progression throughout the semester.

Dr. Tejaswini
Dr. Tejaswini



A handwritten signature in blue ink, likely belonging to the Principal.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati vidyapeeth college of Architecture , Navi Mumbai
Architecture Design _ 4th year B (2020-2021)
Faculty : Harshada Katkar, Neha Pradhan and Kirti Lonerkar

Resilient Urbanity: Affordable Housing

Introduction

The rate of urbanisation has surpassed the economic growth in India which consequently has increased the significance of affordable housing in urban areas. According to the Urban affairs ministry, the housing shortage in 2018 was estimated to be 11 million in urban areas alone. There are numerous challenges faced by affordable housing ranging from high cost of land and building materials to the present COVID 19 pandemic situation. Corona is still being understood but its mark on our lives is evident, be it on tangible or intangible factors. Terminologies such as hot spots areas, containment zones, physical distancing, sanitization etc have become part of our vocabulary. Now our perspective towards looking at all this is totally changed as lockdown has forced us to stay indoors and reduced many issues like pollution, traffic etc. As we start thinking about an environment which is safer during COVID 19, we face new challenges of physical distancing which orients our approach towards designing innovatively.

Aim

Design project is oriented in such a way that students should establish

- Understanding of housing holistically
- Understanding resilient design
- To establish affordable housing which is resilient in pandemic and caters to all new challenges created by pandemics

The studio aims at resilient affordable housing design which needs to revisit the concept of neighborhood, as a primary module for designing of housing. A resident, in any locality should have access to daily needs at walkable distance. Every locality should have shops for essentials, space for community, socio cultural and traditional activities, clinics and other necessary functions, to keep the life going. In case an area is declared a containment area, only essential services may be allowed to enter. With essential supplies pouring in, the neighbourhood can live a normal life even during such critical times. COVID-19 has also caused us to develop a more nuanced appreciation of open space's social and therapeutic potential, such as access to better air quality and more physical activity,




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

among other benefits. Thereby requiring us to think differently about built and unbuilt space not just as response to the pandemic but keeping in mind the housing requirement in the face of any crisis.

Objectives

The objectives of this design studio are

- Understanding housing holistically and its various typologies
- Understanding various disasters which can affect housing and developing resilient housing scheme
- Understanding and developing resilient affordable housing by innovative design ideas
- Resolving challenges faced during lockdown through design of built and unbuilt environment

Students are required to design on a site measuring 3.5 hectares reserved for affordable housing development at Sector 37, Kharghar, Navi Mumbai. Design solutions should be based upon the understanding of the trend of development, neighbourhood, open and built spaces, architectural design of houses and amenities as per the requirement of the hour.

Design Considerations

- F.S.I. would be 1.5
- Adequate 4-wheeler and 2-wheeler parking should be accommodated as per bye-laws.

The following are the distribution of areas which needs to be fulfilled in Housing Complex Design.

Site Area	100 %	Selected site (3.5 hectares)
Infrastructure	15 %	Internal roads
Residential	60 %	Residential 60%
Amenities	5%	Shops for essentials, space for community, socio cultural and traditional activities, clinics and other necessary functions
Recreational ground	15 %	Playground, parks, recreational ground, etc



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Utilities/Services	5 %	Fire, electrical and water services etc
--------------------	-----	---

Allocation of areas for various housing types Housing Type & Area Distribution

LIG	20%	20% 1BHK
MIG	50%	10% Studio apartments + 40% 2BHK
HIG	30%	10% Penthouses +20% 3BHK/4 BHK

→ Net density for residential areas would be derived from relevant case studies.

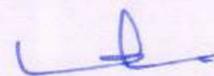
Deliverables

Group Work

→ Case studies (urban design and resilient design)

Individual Work

- Contextual analysis and site analysis (for Neighbourhood scheme)
- Proposed neighbourhood scheme (design and calculations) Conceptual design (urban design, layout, building units and housing units)
- Proposed neighbourhood scheme (design and calculations)
- Progressive design and integration of allied parameters (construction, services and environment)
- Design and detailing of one amenity
- Detailed design (plans, sections, elevations, site sections)




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Site and Context

Site for the project is an open land reserved for affordable housing development at Sector 37, Kharghar, Navi Mumbai admeasuring 3.5 Hectares. The area around the site is not developed but expected to develop in future with residences, schools, colleges, health and metro station etc.



PC:Sudhanshu

East	Adjoining plots reserved for residential and commercial purpose
North	Approach road of 20 m to the site
South	Approach road of 20 m to the site
West	Adjoining plots reserved for police housing and residential and commercial purpose

- Neha Pradhan - *Pradhan*

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth College of Architecture, Kharghar, Navi Mumbai

Semester-VII | Fourth Year B. Arch | 2020-2021

Subject: Architectural Design

StuDwell | Rethinking Student Dwelling

Student Housing Project | Fourth Year B.Arch('C') | BVCOA

Faculty: Prof. Ruta P. | Prof. Sumitra K. | Prof. Madhura N.

Introduction:

Students play a vital role in the progress of a nation. They are valuable assets on which the future of any country depends and hence it becomes necessary that they get education from good institutions. Also with India being home to some 34 million students in higher education system out of which 18.6 million students are male & 16.0 millions are females which is double the size of numbers of students in the western countries, which leads to increased student mobility both internationally & intra-nationally which is expected to rise in coming years. The common observed facility of accommodation provided by the institutions for the students is hostels. However, it is observed that many students opt to rent a flat in a group due to the freedom, space and environment which individual residential units offer to them. Hence, most of the universities abroad are making easy and comfortable accommodation for students in the form of individual housing units. Currently in India, the supply-demand gap of student accommodation is very huge and many educational institutions are unable to cater to this growing demand. Institutions of higher education are challenged by the need to create residential facilities that support recruitment and retention of students, facilitate socialization and engagement, and provide a foundation for academic success. We see the following trends influencing student housing on college campuses today and into the future.

Aim:

To design a Student Housing complex for a student population of 600 in approximately 10 acres of plot area. The studio aims to explore various options for student housing and the focus will be on providing homely comfortable environment through design.

Objectives:

- Understanding the various typologies of student accommodation and sustainable housing through case studies and research.
- Understanding of physical, psychological and cultural needs of the students in relation to spatial context.
- Using various technological innovations & their incorporation.
- To conceptualize a dwelling unit to serve all the needs of students.
- To propose a design with response to the implications and limitations of site and bye laws.



**Challenges &
Opportunities:**

Increased privacy

Privacy is becoming a highly sought after amenity. Colleges and universities are increasingly including a range of privacy levels from the number of students to a room to the number of students sharing a bathroom. Today, communal bathrooms are rare in new residence halls.

They're not 'dorms' anymore

This walk able, amenity-filled community more closely resembles an urban, mixed-use apartment complex than what we once called a dormitory. Today's college students embrace housing facilities that are lively, engaging, state-of-the-art, and sustainable.

Diverse unit types appeal to different living preferences

By blending a variety of one to four bedroom units within a building, this design strategy benefits both the students and the institution – offering students the choice to live as they like, and offering the school increased flexibility in the future as the campus population changes. Perhaps the most important element of this trend in designing is the mix cultural community's participation due to globalization.

Innovative, flexible common spaces

Specific objectives are to encourage social engagement, improve retention, and help students build relationships and make new connections, and ultimately foster academic success. To encourage this, design concepts feature lounges, study spaces and kitchens that are equipped with comfortable furniture that can be easily reconfigured or moved to accommodate different types of events. Green spaces, maker spaces, innovation incubators, and faculty-in-residence all indicate that today's college housing differs drastically from the mid-twentieth century residences that many schools must now replace or renovate.

Living-learning communities enhance student life experience

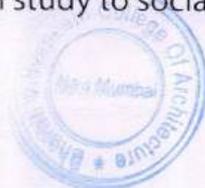
The concept of the living-learning environment has taken hold and can range widely, customized to suit unique campuses and student populations. Studies are showing that informal settings are better for college-level learning than the traditional academic setting or by infusing collaborative study areas throughout a predominantly residential building to provide students with easily accessible study amenities.

Going green

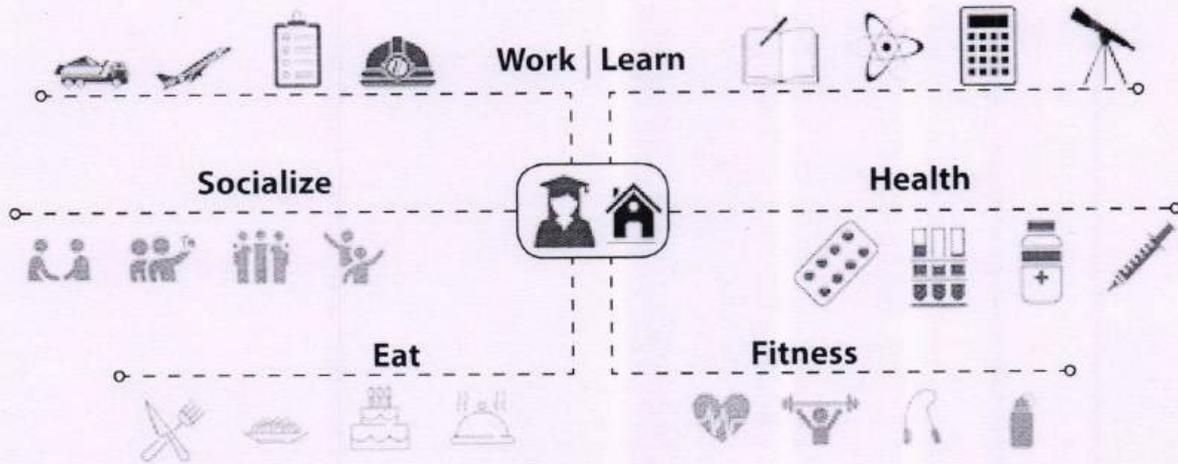
Sustainability is a lifetime learning tool, and colleges and universities are leveraging cutting edge green features and technologies to influence student behaviour, promote wellbeing of the community. From green roofs to outdoor classrooms to eco-friendly design choices such as maximum use of day lighting, low-flow shower heads and toilets, and energy efficient measures of sustainability.

Wi-Fi connectivity – and the importance of outlets

Electronic devices are a huge part of the student lifestyle. From smart phones to iPods and iPads to Kindles and laptops, students (and faculty) have an expectation that Wi-Fi connectivity will be available across campus for everything from study to socialization.



Key Aspects:



Design Requirements:

IIM-N a prestigious internationally renowned university has proposed a campus at Nagpur with world class student housing catering to the students from all over world. The requirements of student housing will be based on international standards and considering future trends of student housing. The total capacity of the housing is 1000 students from different streams of Technical Education. The design would promote interactive clusters of different typologies of housing. The campus would create a culturally cohesive environment. The housing need cater the day to day needs of the students and can facilitate the socially interactive spaces within the clusters. The Student housing can aim for a self-sustained campus catering to all needs of the students. Campus landscape that can be used to create-places to socialize, study and play, places for calm and contemplation.

Accommodation typologies:

(each block consist of attached toilet)

- Three - bed sharing facility: inclusive of three single bedded rooms with living and pantry
- Two - bed sharing facility: inclusive of two single bedded rooms with living and pantry
- Single - bed facility: inclusive of one single bedded room with living and pantry
- Co-living spaces: studio apartments
- Dormitories: inclusive of five bedded room with living.

Themes:

Concept of MICRO-HOUSING

Instead of having traditional rooms with two beds, dorms will feature one bed, along with a small space to study and prepare food. Students will be able to sleep, study, and eat within their rooms. Concept of

Co-living spaces

Co-living is the trend of living with many other people in one space that encourages its residents to interact and work together. Residents will usually have their own bedroom and bathroom but will share common areas like cooking and living spaces.

- Design Process:**
1. Understanding the Design Problem in the realm of Housing
 2. Search for parameters and constraints of design
 3. Identification of appropriate principles and typologies
 4. Selection of design appropriate themes like Sustainable, Earthquake resistant, Low cost and Resilient
 5. Functional requirements of the cluster with respect to amenities and services
 6. Testing, analysis and feedback
 7. Design solution

**Drawing
Requirements
Deliverables:**

- Concept development based off of site analysis
- Three dimensional form exploration and creating a model
- Case Study of Film institutes
- Program development
- Zoning and Programmatic Relationships
- Concept implementation in the form of site planning
- Working on design development
- Design Drawings: Site Plans, Detailed Plans, Elevations, Sections, Views
- Scaled Model

**Evaluation
criteria:**

- Concept and design intent
- Research & Innovation
- Originality
- Response to context
- Area program: Understanding of the user and space
- Efficient use of space: Macro and micro design solutions
- Presentation

**Probable Case
Studies:**

- Stacked Student Housing / Thirdspace Architecture Studio, India
- "The street" by Sanjay Puri, India.
- Small Bridges at Warren College UCSD / Kevin deFreitas Architects
- Dyson Institute of Engineering and Technology / WilkinsonEyre
- STUDENT RESIDENCE / Z+BCG ARQUITECTOS
- Dormitories in Zhejiang University / STI Studio from the Architectural Design & Research Institute of Zhejiang University
- Boys Hostel Block / Zero Energy Design Lab
- Boeselburg Council and Student Housing / Kresings GmbH



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Site Location:

The permanent campus of IIM-N is proposed at Dahegaon Mauza, MIHAN, 9 km from the Dr Babasaheb Ambedkar Nagpur International Airport.

Phase 1 covers approximately 60,000 sq. m of the site, and includes the construction of a state-of-the-art academic complex, library, administrative block, student hostels, sports complex and faculty housing.

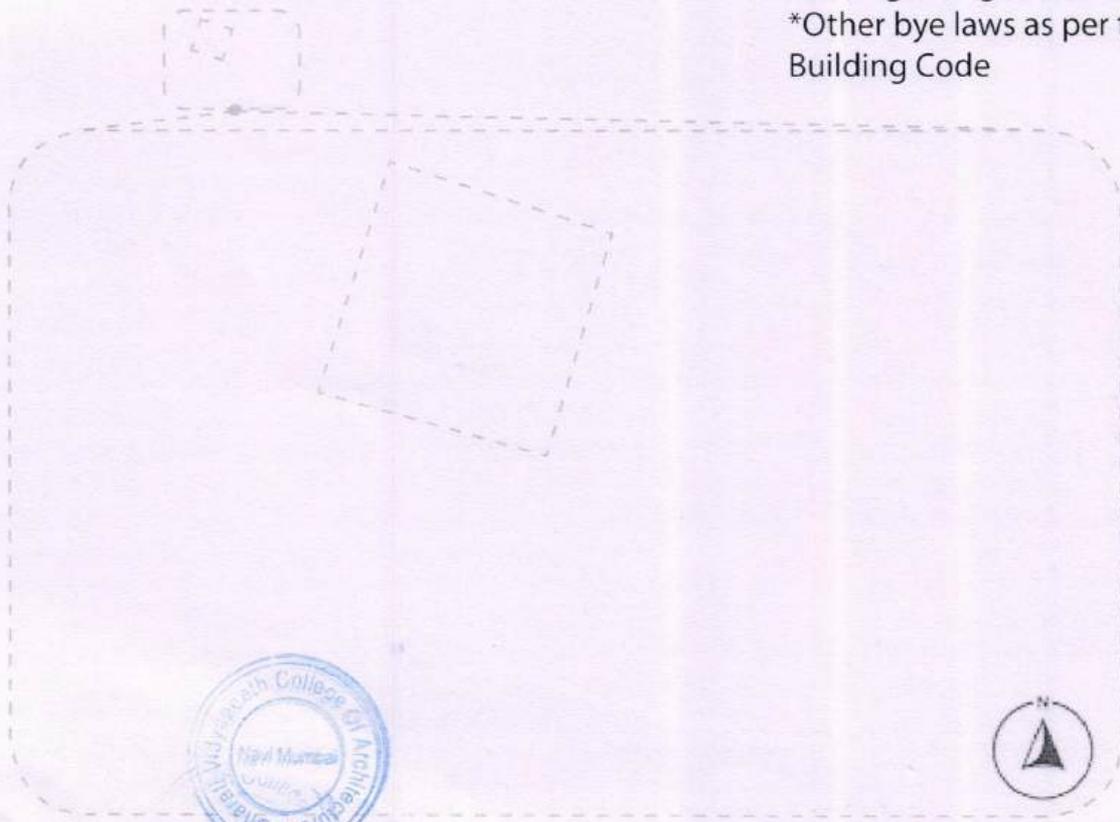
Four years on, IIM-Nagpur permanent campus work kicks off on March 6

THE PROPOSED PROJECT		
Sanctified area	132 acres	
Estimated cost of campus	₹650 cr.	
Funds released as on date	₹379 cr.	
Construction phases	Three	
New campus strength	600 students	
Estimated start of shift	2020	

NACPIR - after a delay of two years from the first phase, the construction of the permanent campus of IIM-Nagpur will start from March 6. The ground-breaking ceremony, which was cancelled in December last year, would be done by Union Minister Nara Gopinath and Minister-in-charge, Education, Padrao Patil at the site. The project

Location:

- The Site is a Land Pocket at Dahegaon, Mihan, Nagpur
- Area - 132 acres
- Building Rules (Mandatory)
 - o Permissible FSI – between 1.5 and 2.5.
 - o You can not consider the site flat and devoid of contours.
 - o Minimum setback- Refer to the NBC regarding other rules
 - *Other bye laws as per the National Building Code



Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Space Program:

Students can refer to the table given below for space distribution since space programming is a primary task during the schematic design process, to produce a geometric configuration of a space layout that is in accordance with the project's requirements.

- o Maximum Permissible Ground Coverage - 60%
- o Maximum Permissible Height – No height restriction
- o Parking Requirements: 1 car park for every 50 sq.m. of Built Up.

Housing Requirements			
Sr. No.	Spaces	Unit	Area(Sq M)
Accommodation			
1	3 bedded shared facility	350	60
2	2 bedded shared facility	300	45
3	Single bed shared facility	400	30
4	Co-living spaces	200	40
5	Dormitories	150	40
	Total Area		60,500
Administration Area			
1	Office Area	1	50
2	Staff Area	1	25
3	Waiting Area(including toilet)	1	50
	Total Area		125
Amenity Area			
1	Library (including study area)	2	100
2	Indoor game area	1	50
3	Cafe	4	75
4	A.V. Room	2	75
5	Gym	1	50
6	Shopping Area	2	100
7	Medical Facility	1	20
8	Photocopy and Printing Area	1	30
	Total Area		1000
Food Court			
1	Kitchen Area	1	150
2	Dining Area	2	250
3	Store Area	1	50
	Total		700
1	Multipurpose hall with 1000 people Capacity	1	1500
2	Outdoor play area	1	4000
Parking Area			
	Adequate Four, Two wheeler and cycle parking		
	Adequate Toilet Area in each block (As per Standards)		



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

FACULTY: Div.A: Prof. Anil Nandedkar, Prof. Kamakshi Vaidya,
Div. B: Prof. Varsha Annadate, Prof. Vinita Deshmukh,
Div.C: Prof. Indrajit Barman, Prof. Harshada Ponkshe, Prof. Trupti Kamat

ASSIGNMENT – 150 BEDDED GENERAL HOSPITAL, OR WITH SINGLE SPECIALITY CARDIO / ORTHOPAEDIC

INTRODUCTION:

With the advancement of technology, health care sector has witnessed the growth of the facility in medical sciences. From the basic level of facility as dispensary, these are growing to the super-specialty category of hospitals. Hospital is the basic requirement in the health care sector of development for human well-being. It is a place where patients are cured for their ailments and cared by specialized staff. With the increasing demand of the health care facility from the growing density of population and the current health issues during this pandemic, hospital design was thought as the most required facility hence this assignment is introduced as an academic exercise for final year students.

THE DESIGN:

The proposed hospital is a **150 bedded General hospital with one specialty (Cardiac/Orthopedic)**. It will have emergency unit, out-patient department and diagnostic & treatment areas with specialized services. It will have the facilities as intensive care unit and high dependency department, maternity unit, pediatric unit, blood bank, physiotherapy area, cardiac unit with cathe-lab, operation theatres, wards and other ancillary services.

AIM OF THE PROJECT:

To design a healthcare facility to create a comfortable space for nursing and treatment, thus contributing to a patient's positive mental attitude with the focus on the interaction between patients, visitors and nursing staff in relation to the physical environment. A healing environment for spaces designed can affect both the physiological and psychological well-being of the patient.

OBJECTIVES:

Collection and analysis of data (through case studies, expert's lectures, and literature study) related to design topic.

To respect the compliance of the technical environment, the diversification of the different levels for interior planning and the relationship between the departments in healthcare and hospital project.

Understanding impact of socio-economic factors on user requirements, implication of climatic conditions on site planning and building design.

SITE DESCRIPTION:

The choice of site from the shortlisted sites was available to students. The sites are located at Kharghar, Sanpada, Khopoli and the site areas ranges from 4 to 7 acres.

DESIGN REQUIREMENTS:

HOSPITAL BUILDING PLANNING AND LAYOUT:

- a) Appearance and upkeep.
- b) Signages.
- c) Condition of roads, pathways and drains.
- d) Environment friendly features.
- e) Barrier free access.
- f) Adequate parking of visitor's vehicles, employee's vehicles and ambulance.

The students have worked on and formulated their own design brief for the assignment.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

GENERAL REQUIREMENTS FOR DESIGN OF HOSPITAL BUILDING:

One should consider following criteria while designing of hospital for arriving at functional and sustainable proposal.

1. Efficiency and Cost-effectiveness.

- Promote staff efficiency by minimizing distance of necessary travel between frequently used spaces
- Allow easy visual supervision of patients by limited staff
- Include all needed spaces, but no redundant ones. This requires careful pre-design programming.
- Provide an efficient logistics system, which might include elevators, pneumatic tubes, box conveyors, manual or automated carts, and gravity or pneumatic chutes, for the efficient handling of food and clean supplies and the removal of waste, recyclables, and soiled material
- Make efficient use of space by locating support spaces so that they may be shared by adjacent functional areas, and by making prudent use of multi-purpose spaces
- Consolidate outpatient functions for more efficient operation—on first floor, if possible—for direct access by outpatients
- Group or combine functional areas with similar system requirements
- Provide optimal functional adjacencies, such as locating the surgical intensive care unit adjacent to the operating suite. These adjacencies should be based on a detailed functional program which describes the hospital's intended operations from the standpoint of patients, staff, and supplies.

2. Flexibility and Expandability:

- Follow modular concepts of space planning and layout
- Use generic room sizes and plans as much as possible, rather than highly specific ones
- Be served by modular, easily accessed, and easily modified mechanical and electrical systems.

3. Therapeutic Environment:

Hospital patients are often fearful and confused and these feelings may impede recovery. Every effort should be made to make the hospital stay as unthreatening, comfortable, and stress-free as possible. Using familiar and culturally relevant materials wherever consistent with sanitation and other functional needs

4. Cleanliness and Sanitation:

- Appropriate, durable finishes for each functional space
- Careful detailing of such features as doorframes, casework, and finish transitions to avoid dirt-catching and hard-to-clean crevices and joints
- Adequate and appropriately located housekeeping spaces
- Special materials, finishes, and details for spaces which are to be kept sterile, such as integral cove base. The new antimicrobial surfaces might be considered for appropriate locations.

Accessibility:

- Ensuring grades are flat enough to allow easy movement and sidewalks and corridors are wide enough for two wheelchairs to pass easily
- Ensuring entrance areas are designed to accommodate patients with slower adaptation rates to dark and light; marking glass walls and doors to make their presence obvious

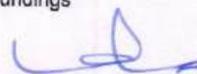
5. Controlled Circulation

- Outpatients visiting diagnostic and treatment areas should not travel through inpatient functional areas nor encounter severely ill inpatients
- Typical outpatient routes should be simple and clearly defined
- Visitors should have a simple and direct route to each patient nursing unit without penetrating other functional areas
- Separate patients and visitors from industrial/logistical areas or floors
- Outflow of trash, recyclables, and soiled materials should be separated from movement of food and clean supplies, and both should be separated from routes of patients and visitors
- Transfer of cadavers to and from the morgue should be out of the sight of patients and visitors
- Dedicated service elevators for deliveries, food and building maintenance services

6. Aesthetics

Aesthetics is closely related to creating a therapeutic environment (homelike, attractive.) It is important in enhancing the hospital's public image and is thus an important marketing tool. A better environment also contributes to better staff morale and patient care. Aesthetic considerations include:

- Increased use of natural light, natural materials, and textures
- Use of artwork
- Attention to proportions, color, scale, and detail
- Bright, open, generously-scaled public spaces
- Homelike and intimate scale in patient rooms, day rooms, consultation rooms, and offices
- Compatibility of exterior design with its physical surroundings



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

7. Security and Safety

- Protection of hospital property and assets, including drugs
- Protection of patients, including incapacitated patients, and staff
- Safe control of violent or unstable patients
- Vulnerability to damage from terrorism because of proximity to high-vulnerability targets, or because they may be highly visible public buildings with an important role in the public health system.

8. Sustainability

Hospitals are large public buildings that have a significant impact on the environment and economy of the surrounding community. They are heavy users of energy and water and produce large amounts of waste. Because hospitals place such demands on community resources they are natural candidates for sustainable design.

5 Ways Hospital Design Influences Patient Health

1. Sense of place
2. Private room
3. Nature + artwork
4. Noise
5. Color

DESIGN REQUIREMENTS:

HOSPITAL BUILDING PLANNING AND LAYOUT:

- g) Appearance and upkeep.
- h) Signages.
- i) Condition of roads, pathways and drains.
- j) Disaster prevention measures- Building structure should be made disaster proof especially earthquake resistant and equipped with fire protection measures.
- k) Environment friendly features.
- l) Barrier free access.
- m) Adequate parking of visitor's vehicles, employee's vehicles and ambulance.

BUILT-UP AREAS:

1. Administrative block.
2. Hospital building.
3. Residential Quarters.

HOSPITAL BUILDING DEPARTMENTS (GENERAL):

1. Outdoor Patient Department (OPD):

- a. Reception and Enquiry
- b. Waiting spaces.
- c. Consultation Rooms/Clinics.
- d. Patient's Amenities.
- e. Nursing services.

2. Imaging department:

- a. Magnetic Resonance Imaging (MRI).
- b. CT scan (Computed Tomography).
- c. Ultrasound.
- d. Mammography.
- e. X-Rays
- f. Waiting spaces

3. Clinical Laboratory:

- a. Pathology lab.- collection room, diagnosis of blood, urine and stool samples. Separate reporting room for pathologists, micro-biologist should be provided.

4. Blood Bank:

Initial test for selection of donors, counseling and examination of donors, consent for donor, issue and transport of blood, storage of blood, blood transfusion,.

5. Inpatient patient department:



A handwritten signature in blue ink, appearing to be 'S. S. S.', written over a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

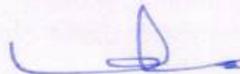
- a. Inpatient nursing units- includes wards – male ward, female ward, maternity ward, pediatric ward. In addition hospital can also have emergency/trauma ward, burn ward, orthopedic ward, ophthalmology ward, infectious disease ward and private ward.
- b. Nursing services.
- c. Patient's Amenities
- 6. Pharmacy:**
 - a. Medical store facility for indoor patients and pharmacy with accessibility for OPD patients.
- 7. Intensive Care Unit and High dependency ward:**
 - a. Number of beds may be restricted to 5% of the total bed strength. Out of this 50% will be for ICU beds and 50% for High Dependency Wards.
 - b. Facilities to be provided are Nurses Station, Clean utility area, dirty utility area, Equipment room, Sluice room, Linen store room.
- 8. Accident and Emergency Services:**
 - a. Separate entrance, easy ambulance approach, covered area for alighting patients, signage of emergency.
 - b. Triage room.
 - c. Parking of stretcher, wheel chair and trolley at the entrance.
 - d. Equipment room for mobile X-Ray machine.
 - e. Minor Operation Room.
 - f. Pre-treatment areas as injection room, plaster room etc.
 - g. Duty rooms for doctors/nurses/staff.
 - h. Sufficient waiting areas with public amenities.
 - i. Public amenities for patients.
- 9. Operation theatres:**
 - a. Operation rooms with sink/photo sensors for water facility, sterile area, scrub area. Laminar flow of air to be maintained in operation theatres.
 - b. Anesthetist room.
 - c. Clean utility, dirty utility area.
 - d. Duty rooms for doctors/nurses/staff.
 - e. Provision of Specialized services as piped suction and medical gas supply.
- 10. Delivery Suite Unit:**

It should include the facilities as:

 - a. Reception and admission.
 - b. Examination and Preparation room.
 - c. Labour room.
 - d. Delivery room.
 - e. Neo-natal room.
 - f. Sterilizing rooms.
 - g. Sterile store room.
 - h. Scrubbing room.
 - i. Dirty utility.
 - j. Doctor's duty room.
 - k. Nursing Station.
 - l. Nurses changing room.
- 11. Physical Medicine and Rehabilitation (PMR):**
 - a. Physical and electro-therapy rooms.
 - b. Gymnasium.
 - c. Office.
 - d. Store.
 - e. Toilets.

HOSPITAL SERVICES:

1. Management Information System (MIS):
Computers with internet facility to be provided.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

2. Hospital Kitchen (Dietary services):
 - a. Kitchen along-with store.
 - b. Dietician's room
3. Central Sterile and Supply Department (CSSD):
4. Hospital Laundry
Facility for washing, drying, pressing and storage.
5. Medical and General store:
For storage of vaccines and other logistics – Cold Chain Room – 3.5m x 3.0m in size, Vaccine and Logistics room - 3.5m x 3.0m in size.
6. Mortuary
7. Engineering services:

Electrical engineering:

 - a. Sub-station and Generator room.
 - b. Illumination – Emergency lighting.
 - c. Call bells.

Mechanical engineering:

 - a. Air- conditioners.
 - b. Room heater.
 - c. Mechanical devices for ventilation.

Public Health Services:

 - a. Water Supply.
 - b. Drainage and Sanitation.
8. Waste Disposal System.
9. Housekeeping services.
10. Record Maintenance (medical record department).

DRAWING REQUIREMENTS:

11. Data analysis, Case-study analysis, Site analysis.
12. Design process adopted.
13. Site plan showing roof plan and site development.
14. Floor plans
15. Elevations – min. 4nos.
16. Sections – min. 4 nos.
17. Views
18. Walk-throughs

H.K. Pankshé
(Harshada Pankshé)



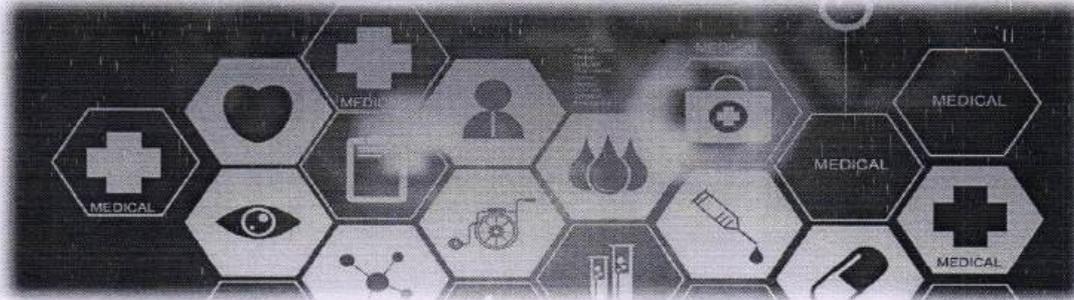
A handwritten signature in blue ink, appearing to be 'A. D.' or similar, written over a horizontal line.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design topic for Final Year B.Arch BVCOA, Navi Mumbai

Div.A: Prof. Anil Nandedkar, Prof. Kamakshi Vaidya, Prof. Shilpa Zabak.
Div. B: Prof. Varsha Annadate, Prof. Vinita Deshmukh, Prof. Anshul Rai
Div.C: Prof. Indrajit Barman, Prof. Anushri, Prof. Trupti Kamat

Topic: 150 bedded General Hospital, or with Single Speciality Cardio / Orthopaedic



.....The speciality of the Hospital of Tomorrow will be a combination of features for the welfare of not only the patients and their relatives, but the doctors, nurses and all the staff of the hospital as well.....

Preface:

The field of healthcare designs is currently undergoing an exciting transformation that will significantly change the appearance of our hospitals. More and more healthcare administrators and medical professionals are becoming aware of the need to create a healing environment that supports the needs of patients, family and staff. The key factor motivating this awareness has been growing scientific evidence supporting the view that physical environment in which medical care is provided has an impact on health and well-being.

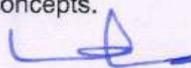
This knowledge base contains some evidence for the health impacts of classical elements of healing environments, such as nature, daylight, and fresh air. Hospital architecture has to create a comfortable space for nursing and treatment, thus contributing to a patient's positive mental attitude. A healing environment for spaces designed can affect both the physiological and psychological well-being of the patient.

We are facing a time-shift in the design of modern hospitals. Hospital management and design teams of architects and engineers have to consider short term circumstances such as the rapidly changing technical aspects of medical treatments; and long term building parameters—providing space and flexibility for future upgrades, improvements, and adaptations of the existing facility to future requirements which cannot be anticipated only a few years earlier when the “new” hospital is being planned.

The Hospital of Tomorrow is supposed to be a green hospital. Architects have to make developments on the site for macro and micro expansion. The speciality of the Hospital of Tomorrow will be a combination of features for the well-being of not only the patients and their relatives, but the doctors, nurses and all the staff of the hospital as well.

It is high time, therefore, to remember what we do know, or rather what we must know in the future, so that we may find solutions for the problems that we face, some of which are clearly of our own doing. Environmental protection, sustainable resource management, re-usable instead of single-use buildings, utilisation of natural resources and flexible real estate use will be the key. Integrated planning is a challenge and an opportunity for architects and engineers. Integrated planning, however, goes beyond the long established, and at least partially fulfilled, mandate of integrating building systems into architectural concepts. Here integrated planning for the Hospital of Tomorrow means full and unified collaboration between different disciplines in the pursuit of truly optimum total building concepts.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Hospital Design - A Holistic Approach

Hospital architecture has to create a comfortable space for nursing and treatment, thus contributing to a patient's positive mental attitude, in an atmosphere of a healing environment, for spaces designed can affect both the physiological and psychological well-being of the patient.

All experts, managers and planners agree that flexibility must be a basic feature of any healthcare facility to keep it safe from rapid obsolescence and ready to face changing needs and technologies. Needs of healthcare facilities are evolving rapidly, and the direction of that evolution is difficult to forecast with any certainty.

If we consider and compare the hospital architecture conditions today to tomorrow's conditions, there are a few aspects which must be considered in the design brief of the Hospital of Tomorrow:

- Rapidly changing needs and technologies, reason: direction of evolution is nearly impossible to forecast
- Changing regulations (government, insurance) with direct impact on the hospital design
- Lifecycle-costs determining a changed method of construction and architecture
- New standard of the inpatient wards: Short Stay (Day-Care), Inpatient Ward up to 5 days, which means more variety in inpatient wards
- More focus on preventive medicine
- Patients with complex diseases and more than one disease (comorbidities) will determine the functions of future hospitals
- Changed room requirements, e.g. imaging PACS, due to new workflow procedures (film-less / paperless / wireless hospital)
- Rapidly growing expectation of the patients / customers
- The healing environment is playing a central role
- Architecture as a branding tool—architecture must be updated and upgraded
- Natural light—natural ventilation for most of the buildings, especially for the inpatient wards and workplaces
- More importance of easy way-finding
- No more a place for sickness and sick people but a place for health and recreation!

As a first result, it is already proven that changes in a hospital's architecture have to be considered as a constant need and that the flexibility of a house is a parameter of economy and affects the economic success of a hospital directly. Today, the rate of change is occurring more frequently with even more uncertainty. Increasing pressures from technology, changing business strategies and changes in the overall healthcare system.

To make sure that the change of parts of the hospitals will be appropriate, in terms of the level of change of interiors, technical installation and medical equipment in general, hospital planners have to be able to distinguish between the following categories:

- Departments like OT, ICU, nuclear medicine, ambulant surgery, emergency department and laboratory
- Less installed parts like wards
- Departments like administration, offices, OPD consultation rooms with less technical installation or medical equipment, training facilities etc.

To respect the compliance of the technical environment, the diversification of the different levels of interior planning and the life-cycle aspects of the three categories must be considered in every healthcare and hospital project.

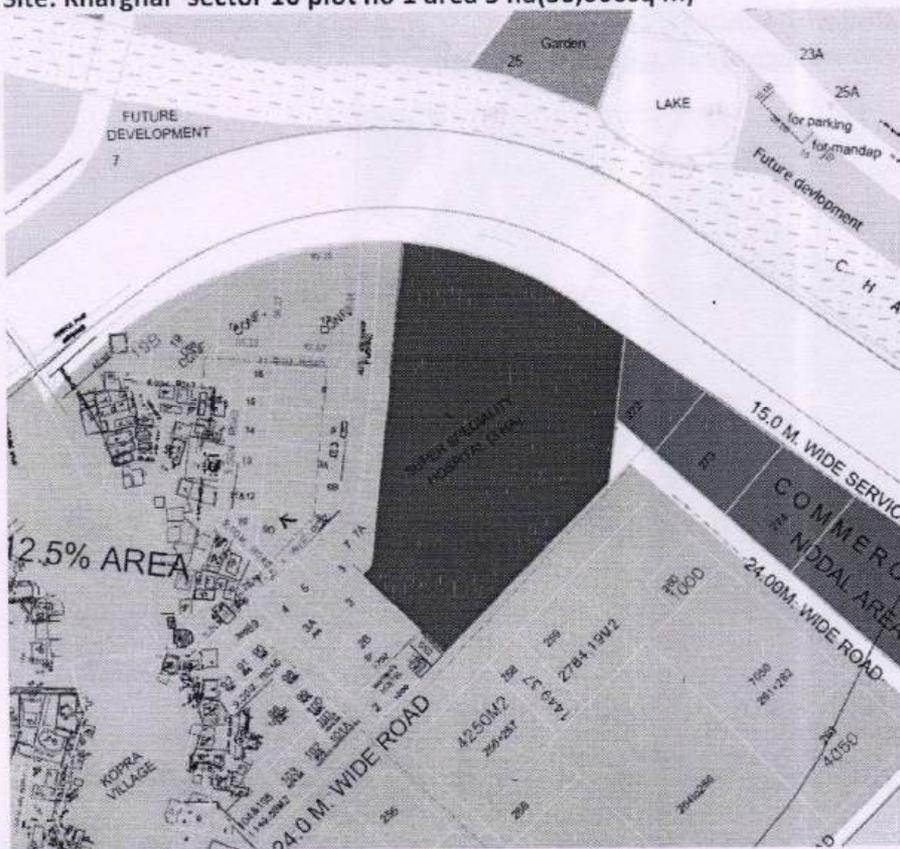
The Hospital of Tomorrow will pay respect to all these issues and also define a new quality in hospital design—for India, by combining all features of hospital design, environmental protection, energy saving and healing environment design, included in an highly economic hospital following clinical patient path ways and defined workflow procedures, for the benefit of quality control, for patients and staff.


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Group A.

150 bedded General Hospital with Speciality Cardio

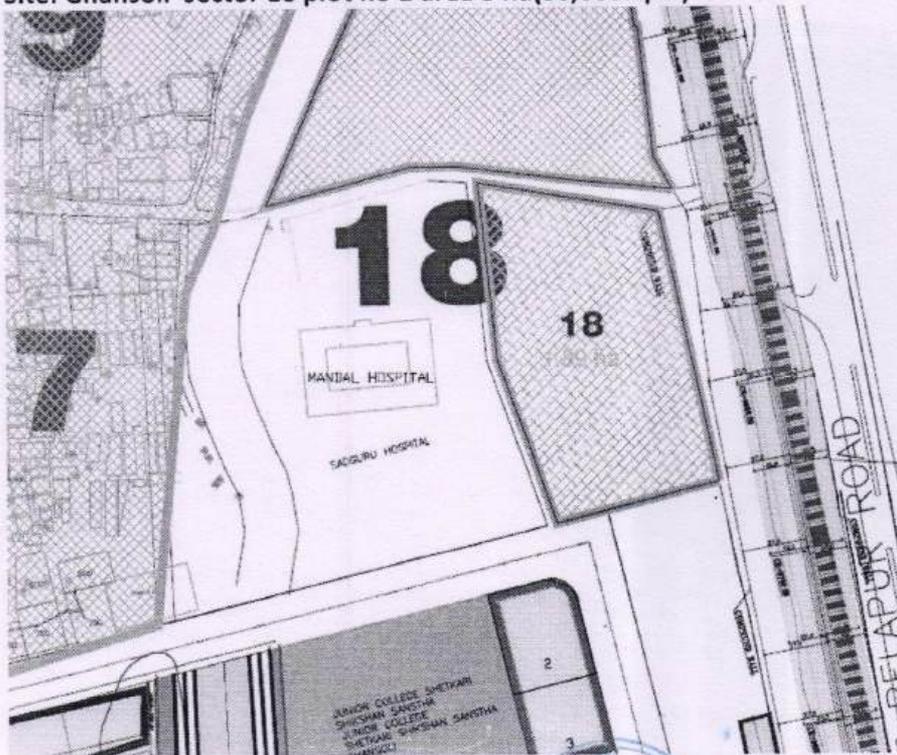
Site: Kharghar sector 10 plot no 1 area 3 ha(30,000sq m)



Group B.

150 bedded General Hospital

Site: Ghansoli sector 18 plot no 1 area 3 ha(30,000sq m)



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design Brief

Bharati Vidyapeeth College of Architecture, Kharghar		
Architectural Design Studio- I	Sem 1- C	Year 2021
Working Title: Domain for Cartoon character		
Faculty: Asst Prof. Anshul Rai, Asst Prof. Snehal Ghag and Asst Prof Anupama		

Introduction

As many things in the year 2020 changed, few of which was impacting the Academic curriculum. Academic session 2021 became short thus requiring us to introduce very compact and concise topic which otherwise in normal session in studio they would have done. Topics including such as Anthropometry, Composition, Ergonomics, Case Study, Site Introduction, Residence Design and Model Making. We thought of combine all topics to attain a good result by the end that to not only design a better space but also understanding the various processes involved in Residence Designing. We broke all this topic individually resulting into a product which become resource for the next project, so that they dont have to start again with the introduction of new project, this saving time and providing students with a better understanding. Also to make it fun we introduced cartoon characters our hypothetical client's for the residence.

Aim

To design a domain for imaginary character on site developed by students subconsciously, previously involving all the necessary topics (1st Sem) as a development stage.

Objectives:

- The objective of this methodology was to combine whole arm into one design problem without letting students know about the longevity of the design problem.
- Each design stage has to be developed in sync with what will come next.



A handwritten signature in blue ink, consisting of a stylized 'A' followed by a horizontal line and a small flourish.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- To make them understand about their imaginary client (cartoon character) thoroughly wet to ergonomics, types of spaces he/she use, types of activities through watching their videos and case study representation via Story-board.
- Composition development according to their thought process which later to be developed into 3d model
- Hands on experience on the 3d model to develop more interactive spaces.
- Texturing, rendering of the sheets representing the type of space which cartoon character loves in their design.

Learning objectives

- Understanding and preparing a pre-design strategy
- Stimulating thought process and conceptual abilities through models and sketches
- Understanding Context and relation with one's design
- Deriving design and program solution from case study and site analysis
- Development of appropriate architectural forms, their grouping and composition
- Improving drawing, model making and presentation skills

Broad list of program as per the competition specification:

1. Understanding human dimensions by drawing different postures for 20-30- and 5-10-years age group. Students explored Neufert for furniture and posture understanding.
2. Development of two compositions of 7 spaces or shapes, in a given box of 10m x 10m with a strong narrative.
3. Cartoon analysis of its spatial behavior- Here the user is a favorite cartoon character of every student. The cartoon character study undertaken to understand the nature, hobbies and daily spaces with anthropometric and ergonomic values.
4. One composition is selected from the above two compositions and students explored the volumetric study through Model making.
5. Engagement in making plans, section and isometric views for the cartoon character's designed or ideal spaces.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

6. Working on model with designed space characteristics and various materials.
7. Making the ideal furniture for the Cartoon characters as per its habits and comfort.
(Application of anthropometry and ergonomics)

Site:

The process of site selection was more organic rather imposing. Without letting students know we ask them to design a composition using 7 different shapes using certain hierarchy. We asked 7 because those space could later be developed into areas like bedroom, living room, bathroom, drawing room, kitchen and balcony, based on their hierarchy. To make them understand the importance of site selection to design a composition with some narration which justifies your story closely associated with you. Then later with introduction of cartoon we ask them, to convert those shapes into spaces for your cartoon which according to cartoons activity. Then we ask them to develop a 3d model of that composition which will now be walls enclosing the space providing them with the residence and the site, therefore.

Notes:

- The assessment will be more oriented towards the design process followed by the student rather than the final product.
- However, an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, etc. and a model thereby improving overall skill set.
- Due to online classes students will be allowed to assume the data which is not mentioned



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line and a small flourish.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

1ST YEAR ARCHITECTURAL DESIGN STUDIO

SEM 1 (3RD JAN 2022 – 31ST MARCH 2022)

**FACULTY – Associate Professor – Harshada K, Assistant Professor – Juili S Puri &
Assistant Professor – Pallavi Deshmukh**

TITLE – CAFETERIA AT BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

AIM – To Understand Space Designing, keeping in consideration the primary aspects – of User Requirements, Climatic Conditions, Material specification, Open and Built Spaces Relationship, Creativity and Context.

OBJECTIVES –

Understanding Human Body in Spaces

- Anthropometry

Activities and their Relationship with Spaces

- Space Design
- Understanding types of interactions and seating requirements.
- Understanding enclosures, materials for Transparency, Privacy and Climatic Comfort.
- Landscape elements with spatial requirements and activities.

Scale and Proportions

- Measure Drawings
- Models

Language Vocabulary

- Introduction to architectural design elements
- Nomenclature

Visualization

- Forms of Spaces
- Space Design with Colours, Textures through Models

Exposure to Architects

- Case Study
- Reference of Architects work

CREATIVE ACTIVITIES-

- Photography of Interior Spaces and outdoor areas.
- Sketching of Interior Spaces
- Model Making



A handwritten signature in blue ink, consisting of a stylized 'U' shape followed by a vertical line and a horizontal stroke.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

UNDERSTANDING THROUGH ASSIGNMENTS –

- Anthropometry – Understanding Human Dimensions and association with Furniture.
- Ergonomic – understanding the furniture design through anthropometry.
- Understanding of Open, Semi-open and enclosed spaces through Models.
- Understanding the relationship between nature and Built form.
- Exploration and Creative selection of Material and hands on exercise on Model making to scale.

SITE LOCATION – Area in Front of Architecture College- Canteen Area.

DESIGN OUTCOME – Designing a cafeteria for Bharati Vidyapeeth, Navi Mumbai Campus. The cafeteria should be sufficient for entire campus. The site is in front of Architecture College. Maximum structure height of 4.5 MTR was permitted. The design should have balance of open, semi-open and closed spaces. Understanding the user groups and their requirements should be taken into consideration while designing.

DRAWINGS TO PRODUCE-

- Concept Sheet, Site Analysis and Site Plan at 1:250
- Detail Plan, Roof Plan at 1:50
- Two Sections – 1:50
- Two Elevations – 1:50
- Design 3D sketches
- Block Model – 1:100
- Detail Model - 1:50



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE,
NAVI MUMBAI

1ST YEAR ARCHITECTURE DESIGN STUDIO
SEM 2 (JUN 2021 – AUG 2021)

Faculties: Prof. Sanskruti Rajhans, Prof. Aishia, Prof. Suchita Pawar

TITLE : BUNGALOW DESIGN, MUMBAI

AIM:

To understand Space Design, Circulation and Design Development.

OBJECTIVES:

- Understanding of client requirement.
- Learning of concept development.
- Development of form as per client requirements.
- Understanding relation between forms and spaces.
- Understanding of open, semi open and close spaces.

CREATIVE ACTIVITIES:

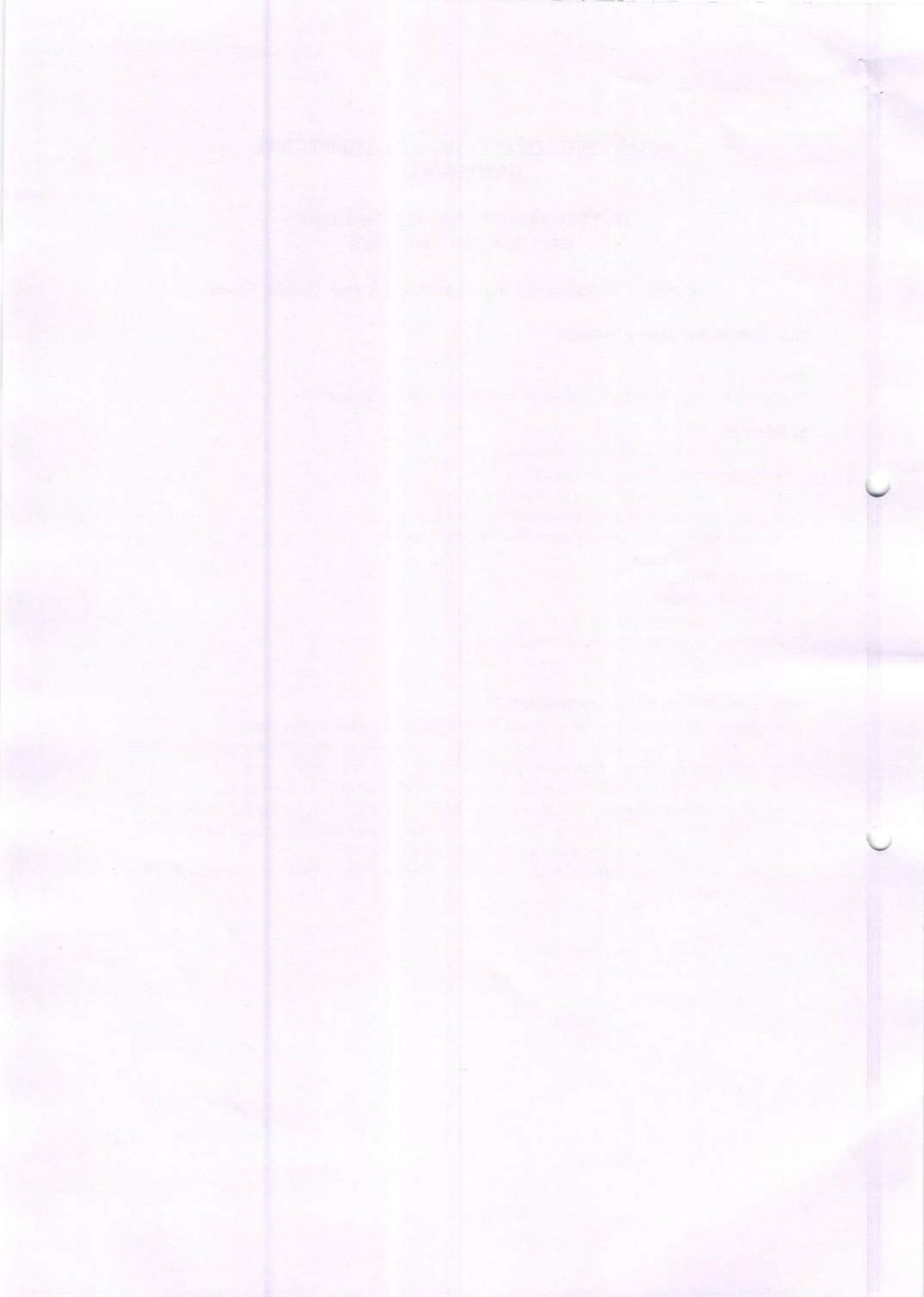
- Mind mapping
- Concept development
- Form development through model
- Site selection and its relation with building.

UNDERSTANDING THROUGH ASSIGNMENTS:

- Mind mapping and understanding the design requirements of the client.
- Collecting objects and making composition, Converting compositions into living spaces.
- Selection of site and understanding the site surroundings by site analysis.
- Understanding the furniture dimensions from Time Saver and Neuferts Data.
- Space design assignment – Zoning, Plan, Sections, Elevations, views and sketches.
- Understanding of open and close spaces through models, sketches and plans.
- Understanding relation between site and building and form.
- Exploration and creative selection of material and hands on exercise on model making to scale.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navli Mumbai



BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE,
NAVI MUMBAI

1ST YEAR ARCHITECTURE DESIGN STUDIO
SEM 2 (JUN 2021 – AUG 2021)

Faculties: Prof. Sanskruti Rajhans, Prof. Aisha, Prof. Suchita Pawar

SITE LOCATION: GIRGHAM CHAUPATI, CHARNI ROAD, MUMBAI.



DESIGN AND OUTCOME:

Designing a weekend house for different set of clients. The house should be sufficient for the client and his/her family. The site area is restricted to 1000sqm with height of 12m. the design should have form – oriented design based on client profile. Understanding of user and their requirements.

DRAWING REQUIREMENTS:

1. Concept sheet, mind mapping and user profile.
2. Site selection and its analysis
3. Site plan - 1:250
4. Detail floor plan – 1:50
5. Roof plan – 1:50
6. Two sections – 1:50
7. Two elevation – 1:50
8. Isometric views
9. Study model – 1:100




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



**Bharati Vidyapeeth College of Architecture
Navi Mumbai**

**Topic - TRIBAL HEALTH CARE & COMMUNITY
CENTER, PALGHAR.**

Subject - 401 Architecture Design Studio IV	Year/Semester - 2 nd year, 4 th semester / B Division
Subject Co-Ordinator - Ar. Aisha Siddiqui, Ar. Anupama Bagal, Ar. Sourasis Barman, Ar. Prachi Rangari	Academic year 2021-2022

Introduction

It is a common sight to see community centers in use in various parts of the world. They have fulfilled a variety of roles in many communities for a number of years. The project's focus is on the design of community center for a rural town. The main research question in this project asks, "What type of community center does this area need?" The sub questions also help to establish the kind of community center that is needed and wanted.

A review of current literature shows no specific way to build a community center or what to include. However there were useful insights gained through the research of others on helpful methods when coming up with a community center plan. This is known as a responsive design approach. It takes into account both the social environment and physical environment and their combined effect on the users. This approach was used in the design.

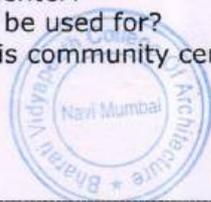
Three tools of inquiry established the data for this project, including surveys, interviews, and a chart created of current available meeting spaces. Four main themes emerged from the data and helped to answer both the primary question and sub questions. The themes include: existing groups' demographics, a review of current meeting places, needs and wants for current and future buildings, and the local level of support. Each of these subject areas provides a complete framework in which to base the type of community center that is both needed and wanted for this rural area.

Main question:

What type or community center does this area requirement?

Sub Questions:

- Who would use this community center?
- What would a community center be used for?
- What amenities are needed in this community center?



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Specific as possible. How do the current meeting spaces affect the learning, participation, and activities?

Would a center be supported (both by use and financially) by the community?

Intent:

To study, understand and implement the determinants of space making for health care and community center in rural context and their relevance in social fabric and built environment. The major emphasis of this studio is to make possible the meeting of the variety of aspects to be considered for affordable design while respecting the need of an individual with respect to residence. It aims to develop a character inherent to the social backdrop and relevant to the programmed specific culture.

Identification of the cultural factors of space making such as notion of privacy and territoriality, family structure and hierarchy, gender roles, occupational associations. Traditional value and their continuity, etc., interpretations of socio-cultural factors in the built form in terms of spatial organization, orientation, open, semi-open and closed spaces correlation, scales and proportions etc., climate and topography, local construction system and use of materials etc.

Design of various typologies such as dwelling-cluster and neighborhood in a specific community and context, relevant case studies and their analysis, literature review, exercises related to relevant or appropriate construction systems and materials.

Aim:

To propose an architectural design solution for Tribal health care and community center that satisfies an individual's need of health and cultural awareness and that generates a living environment satisfactory to the aspects of community living.

Objectives:

The studio exercise shall focus on designing a multi-functional, service (advanced services) oriented buildings in a rural setting including application of rural development, controls, codes and bye-laws. Emphasis may also be laid on site planning as well as on advanced services at building and at site level. The focus would be on understanding how to design for a rural setting.

1. To develop research skills for survey research and case study
2. To understand functioning of community spaces in rural areas/semi urban
3. To design spaces suitable for life style in rural/semi urban areas
4. To understand and provide specific infrastructure required for communities.
5. To design the buildings suitable to climatic conditions, by using local materials and traditional methods of construction.
6. To conserve the natural surroundings and social fabric suitable for communities
7. To study principles of design, construction, and technology based on tradition and experience.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design requirement with area

All areas are in Sqm

RURAL HEALTH CARE SYSTEM IN INDIA					
					
Community Health Centre (CHC) A 30 bedded Hospital/Referral Unit for 4 PHCs with Specialised services					
					
STAFF FOR COMMUNITY HEALTH CENTRE		No.			
1	Medical Officer	4			
2	Nurse Mid-Wife (staff Nurse)	7			
3	Dresser	1			
4	Pharmacist/Compounder	1			
5	Laboratory Technician	1			
6	Radiographer	1			
7	Ward Boys	2			
8	Dhobi	1			
9	Sweepers	3			
10	Mali	1			
11	Chowkidar	1			
12	Aya	1			
13	Peon	1			
Total		25			

NOTE:

Either qualified or specially trained to work as Surgeon, Obstetrician, Physician and Pediatrician. One of the existing Medical Officers similarly should be either qualified or specially trained in Public Health

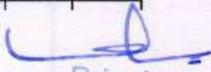
Objectives of the Indian Public Health Standards for Community Health Centres

1	To provide optimal expert care to the community.
2	To achieve and maintain an acceptable standard of quality of care.
3	To ensure that services at CHC are commensurate with universal best practices and are responsive and sensitive to the client needs/expectations.
	Physical Infrastructure: The CHC should have 30 indoor beds with one Operation theatre, labour room, X-ray, ECG and laboratory facility. In order to provide these facilities, following are the guidelines.
	Location of the centre: All the guidelines as below under this sub-head may be applicable only to centres that are to be newly established and priority is to be given to operationalise the existing CHCs.
1	To the extent possible, the centre should be located at the centre of the block headquarter in order to improve access to the patients.
2	The area chosen should have the facility for electricity, all weather road communication, adequate water supply, telephone etc.
3	It should be well planned with the entire necessary infrastructure. It should be well lit and ventilated with as much use of natural light and ventilation as possible.
4	CHC should be away from garbage collection, cattle shed, water logging area, etc
	Disaster Prevention Measures: Building structure and the internal structure should be made disaster proof especially earthquake proof, flood proof and equipped with fire protection measures.
	Layout of the Out Patient Department shall follow the functional flow of the patients: e.g. Enquiry → Registration → Waiting → Sub-Waiting → Clinic → Dressing room/Injection Room → Billing → Diagnostics (lab/X-ray) → Pharmacy → Exit

Function & Space Requirement for Community Health Centre

All areas are in sq.m					
Zone & Functions	Size for Each Sub-function in Mtrs.	Unit Area	No. Unit	T. Area	
Entrance Zone : i.Registration & Record storage, ii.Pharmacy (Issue counter/Formulation/Drug storage) iii.Public utilities & circulation space	Registration/Record Room 3.2 X 3.2 X 2	20.48	1	20.48	
	Queue area outside registration room 3.5 X 3	10.5	1	10.5	
	Pharmacy cum store 6.4 X 3.2	20.48	1	20.48	
Ambulatory Zone (OPD): i.Examination & Workup (Examination Room, sub waiting), ii.Consultation (consultation room), iii.Toilets, iv.Nursing station (Nurses desk, clean utility, dirty utility, treatment rooms, injection & dressing room), Vaccines and Logistics area, v.ECG (with sub waiting) vi.Casualty/ Emergency, vii.public utilities, circulation space	Space for 4 General Doctor Room 3.2 X 3.2 X 4	40.96	1	40.96	
	Specialist room with attach toilets 3.7 X 3.2 X 8	94.72	1	94.72	
	Treatment room 3.7 X 3.2	11.84	1	11.84	
	Refraction room 3.2 X 3.2	10.24	1	10.24	
	Nursing Station 6.4 X 3.2	20.48	1	20.48	
	Casualty 6.4 X 6.4	40.96	1	40.96	
	Dress Room 3.2 X 3.2	10.24	1	10.24	
	Injection Room 3.2 X 3.2	20.48	1	20.48	
	Female Injection room 3.2 X 3.2	10.24	1	10.24	
	Public Utility/Common Toilets Waiting Area	31.5	1	31.5	
	Vaccine and Logistics Room 3.5 x 3	10.5	1	10.5	




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Diagnostic Zone: i.Pathology (Optional) Laboratory, ii.sample collection, iii.bleeding room, iv.washing disinfectants storage, v.sub waiting, vi.imaging (radiology, radiography, ultrasound), vii.Preparation room, change room, toilet, control, Dark room, treatment room, sub waiting, public utilities	Area specification is recommended	180	1	180
Intermediate Zone (inpatient Nursing units): i.Nursing station(Nurse desk, clean utility, treatment room, pantry, store, sluice room, trolley bay) ii.Patient area (bed space, toilets, Day space, Isolation Space) iii.Ancillary rooms (Doctor's rest room, Nurses duty room, Public utilities, circulation space.)	Nursing station 6.4 X 6.4 4 wards each with 6 beds(2 male wards & 2 female wards)size (6.2 X 6.2) X 44 private room (2 each formale & females) with toilets6.2 X 3.2 X 4.2	40.96	1	40.96
	Isolation rooms with toilet(one each for male & female)6.2 X 3.2 X 2	1922	1	1922
		40.96	1	40.96
Critical Zone (OperationalTheatre/Labour room: i.Patient area(Preparation, Paranaesthesia, post-operative resting) ii.Staff area(Changing Resting) iii.Supplies area (trolley bay, equipment storage, sterile storage) iv.OT/Lr area (Operating/Labourroom, scrub, instrumentssterilization, Disposal) v.public utilities, circulation space	Area specification is recommended	240	2	480
Service Zone: i.Dietary (Dry Store, Day Store, Preparation, Cooking, Delivery, pot wash, Utensil wash, Utensil store, trolley park) ii.Receipt, wash, assembly, sterilization, sterile storage iii.Laundry(Receipt, weigh, sluice/wash, Hydro extraction, tumble, calendar, press) iv.Laundry(clean storage, Issue) v.Civil engineering (Building maintenance, Horticulture, water supply, drainage and sanitation) vi.Electrical engineering (substation & generation, Illumination, ventilation) vii.Mechanical engineering, viii.Space for other services like gas store, telephone, intercom, fire protection, waste disposal, Mortuary.	Area specification is recommended	350	1	350
Administrative Zone: i.General Administration, general store, public utilities circulation space	Area specification is recommended	60	3	180
Total				3548
Circulation 30%				1064
Final Total (approx 5000 sqmt. Min.)				4612
Core program space				2150
1. Food preparation area/kitchen to be used for occasional community event/gathering and /or Healthcare facility				
2. Community dinning space for 100 people (Open, semi open, Closed)				
3. Storage				
4. Rooms - 5 No. twin sharing and 5 No. for 4 people sharing (staff)				
5. Indoor gathering space/ Discussion space for 30-50 people				
6. Library for 50 people				
7. Seminar hall/ Gathering event space for 100 people				
8. Workshop area (indoor/outdoor)				
9.Welfare gathering area				
10.Director office				
11.Social Service volunteer				
12. conference				
13. utility & circulation space				
14. Recreation zones				
Final Total Built Up Area (Approx 7000 sq.m) Minimum				6762

Focus of Design

- Variety of garden spaces
- Handicap accessibility (Universal design)
- Strong relationship between indoor/outdoor /built environment / 'natural' environment
- Integration with other buildings / activities adjacent to site.

Site Selection:

Location: Palghar, Dhanu Distric, Maharashtra, India.

Address: Geti pada, mukkam murbad, post veti.

Site area: 6 Acres (Approx)

Total built up Area: 7000 Sq.Mt. minimum

FAR: 0.5

Ground Coverage: 30 % Maximum of total site area



Source: Google Image




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navli Mumbai

Design Development requirement & Finalization of Design (in appropriate scale)

Based on the previous review the development of the design is required. The drawing required will be the following:

1. Site Plan in suitable scale
2. Unit Plan with proper furniture Layout
3. Double line Plan(s) of individual buildings
4. Elevations -2 (minimum)
5. Sections-2 (minimum) thru' toilet and staircase
6. Views, detailed site model and block model.

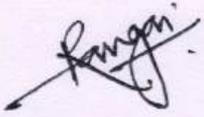
Design requirements submission (tentative date)

Week	Date	Submission
1	4 th , 11 th & 14 th Jan 2022	Jury 1 - Presentation of Field survey/ National and international case study (Group-1 National & 1 International, Individual -1 National)
5	18/01/2022	Jury 2 - Site Analysis / Zoning / Planning Layout
7	25/01/2022	Jury 3 - Single line Floor planning and conceptual model (Building and site level)
9	1/02/2022	Jury 4 - Double line Floor planning stage 1 with detail dimensions and furniture layout
11	8/02/2022	Jury 5 - Double line Floor planning stage 2 with structural and service detail & , All floor plan, Section, Elevation views and site model
18	15/02/2022	Jury 6 - Detail model / Exploded building model
20	22/02/2022	Jury 7 - Internal Prefinal Jury
22	29/02/2022	Jury 8 - Internal final Jury
	Total internal marks	

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Note:

1. The assessment will be more oriented toward the design process followed by the student rather than the final product.
2. However, an emphasis will be put on preparing a complete set of presentation drawings including plan, Section and elevation adopting graphical techniques such as perspective, axonometric views etc. and a model thereby improving overall skill set.
3. All reviews carry equal marks Marking



MR. PRACHI RANGARI



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design Brief | 4th Year (A division), 7th Semester 2021

AFFORDABLE HOUSING

Subject Co-ordinator: Ar. Anushri Sardeshpande, Ar. Sumitra Kadam, Ar. Sourasis Barman

Background:

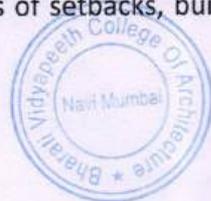
Urban areas today face multifaceted challenges such as population growth, changes in family patterns, growing numbers of urban residents living in slums and informal settlements, constrained urban services, emerging concerns of climate change and upsurge in migration. This has resulted in housing backlog, infrastructure deficit and mushrooming of informal settlements. There were 0.9 million homeless people in urban India [Census 2011], in addition to a slum population of roughly 65 million (or 17% of urban India). People from India's rural areas, home to 833 million people, are migrating in large numbers to urban centres. As such, housing has gained paramount importance in government policies and private investments. Housing remains the biggest driver of economic growth with strong forward and backward linkages. Increasing the supply and quality of housing has a multiplier effect on the economy by boosting the primary sector (raw materials), manufacturing sector (construction materials) and the service sector (architects and engineers, skilled labours, banking and finance). (NITI Aayog, 2021)

Historical Issues in Housing Sector:

The Indian housing market has, in the past, experienced a skewed demand-supply management. Housing backlogs co-exist with stressed assets and vacant housing stock. The development of affordable housing is constrained by economic and spatial issues. On the supply side, scarcity of developed and encumbrance-free urban land, increased cost of construction, growing informal housing options, absence of viable rental market and master-plan restraints have lowered the potential growth of formal affordable housing market. On the demand side, lower purchasing capacity, lack of cheaper loans, inaccessible formal lending options and lesser percolation of subsidy benefits have long been the cause of lower affordability for securing formal shelter.

Land-use plans are unable to keep pace with rapid urban population increase and land development. This leads to the growth of slums and prevents their rehabilitation, which is mired in insecure land tenures, and keep the land locked under litigation or off the market and, hence, sees little or no development/re-development. Low-income households therefore invest little in the betterment of the rudimentary house, which negates any transformation of the neighborhood into vibrant space even with progress in income standards.

In addition, Development Control Regulations of lower Floor Area Ratio (FAR)/Floor Space Index (FSI) or arbitrary parameters of setbacks, building heights and width of access roads




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

that constrain building development or full-realization of permitted FAR/FSI are not only anachronistic but has become redundant in the present times of burgeoning population and exacerbating need of land. These parameters are also responsible for creating sub-standard and inadequate ticket sizes, which finds no demand in the market and pile up as vacant stock. (NITI Aayog, 2021)

AURANGABAD: The Maharashtra Housing and Area Development Authority (MHADA) stated; will soon construct around 5,500 houses at Aurangabad Industrial City (AURIC) and two other areas of Aurangabad. Maharashtra housing minister Jitendra Awhad said the project will offer affordable homes to people from different income groups. Along with AURIC, Nakshatrawadi and Chikalthana are identified areas where MHADA will raise housing projects in Aurangabad. They hope for a bumper response to the upcoming scheme like in past. State industries minister Subhash Desai said his department has cleared the land required for setting up the houses under the MHADA scheme at AURIC and other places. The industries department has decided to sanction of 7.5 hectare of land at AURIC for raising the houses. They are also considering such clearance to allotment of 13.28 hectare land at Waluj-Tisgaon for the same. State industries minister Subhash Desai said his department has cleared the land required for setting up the houses under the MHADA scheme at AURIC and other places. The industries department has decided to sanction of 7.5 hectare of land at AURIC for raising the houses. They are also considering such clearance to allotment of 13.28 hectare land at Waluj-Tisgaon for the same.

The MHADA had received 8,226 applications for 864 houses constructed in Aurangabad circle, for which, virtual lucky-draw was carried out. (TOI, 11TH June 2021).

Intent:

To study, understand and implement the determinants of space making for affordable group housing or house forms in urban context and their relevance in social fabric and built environment. The major emphasis of this studio is to make possible the meeting of the variety of aspects to be considered for affordable housing while respecting the need of an individual with respect to residence. It aims to develop a character inherent to the social backdrop and relevant to the programme specific culture.

Identification of the cultural factors of space making such as notion of privacy and territoriality, family structure and hierarchy, gender roles, occupational associations. Traditional value and their continuity, etc., interpretations of socio-cultural factors in the built form in terms of spatial organization, orientation, open, semi-open and closed spaces correlation, scales and proportions etc., climate and topography, local construction system and use of materials, bylaws etc.

Design of various typologies such as dwelling-cluster and neighbourhood in a specific community and context, relevant case studies and their analysis, literature review, exercises related to relevant or appropriate construction systems and materials.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Aim:

To propose an architectural design solution for affordable housing that satisfies an individual's aspiration for a "home" and that generates a living environment satisfactory to the aspects of community living.

Objectives:

The studio exercise shall focus on designing a multi-functional, service (advanced services) oriented buildings (housing development) in an urban setting including application of urban development, controls, codes and bye-laws. Emphasis may also be laid on site planning as well as on advanced services at building and at site level. The focus would be on understanding how to design for an urban setting.

- To understand housing as a process
- To understand the various issues related to housing/community housing
- To study the typology of housing-built form
- To understand the various user groups and to respond to "need based communities"
- To prepare a rational design proposal for the given programme on given site

Major Design Stages:

Literature study:

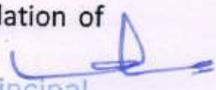
To deal with the design of affordable housing, students are required to understand various aspects listed below. A group study through literature on subject listed below will be conducted to build confidence for design of such complex structure.

- Affordable housing / Low-cost housing
- Understanding development norms and smart city guidelines
- Structural System
- Construction Technology
- Advanced building Material
- Advanced building services (Water, Sewage, Mechanical)
- Advanced building services (waste, fire, electrical and ICT)
- Energy efficient, green buildings
- Landscape, façade treatment
- Parking and building automation

Case study:

To understand how other qualified professionals have approached to the similar kind of housing designs of national or international repute. There is need to visit the already built similar project and make a critical appraisal for design criteria, application or violation of



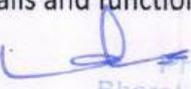

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

norms and standards at unit as well as block/site levels, users' satisfactions, merit and demerits, etc. analysis for cost of dwellings, saleability criteria, anchoring factor, marketability, etc. Following would be the focus area that needs to be studied and documented for further analysis.

1. Project Brief/ Background and design philosophy
2. Development norms
3. Interrelationship of spaces :
 - a) For the overall site layout
 - b) For the Residential towers, commercial and other spaces
4. Site Layout
5. Unit Design and their combinations
6. Different Services
7. Specifications
8. Circulation
 - a) Vehicular
 - b) Pedestrian/ people
9. Building Services
 - a) Water supply
 - b) Sewage
 - c) Solid waste
 - d) Fire
 - e) Electrical
 - f) Mechanical
10. Climatic considerations (if any)
11. Structural System
12. Construction Technology & Advanced building Material
13. Any specific considerations like green buildings, barrier free etc
14. Landscaping and open spaces
15. Façade treatment/ Elevations
16. Project Cost / affordability / typology of housing/ areas of units' vs cost etc.
17. Overall inferences / merits and demerits
18. Area programming (summarized sheets for area finalization)
19. Comparative analysis and Inferences from the Case study

Contents for Case Study Analysis and presentation

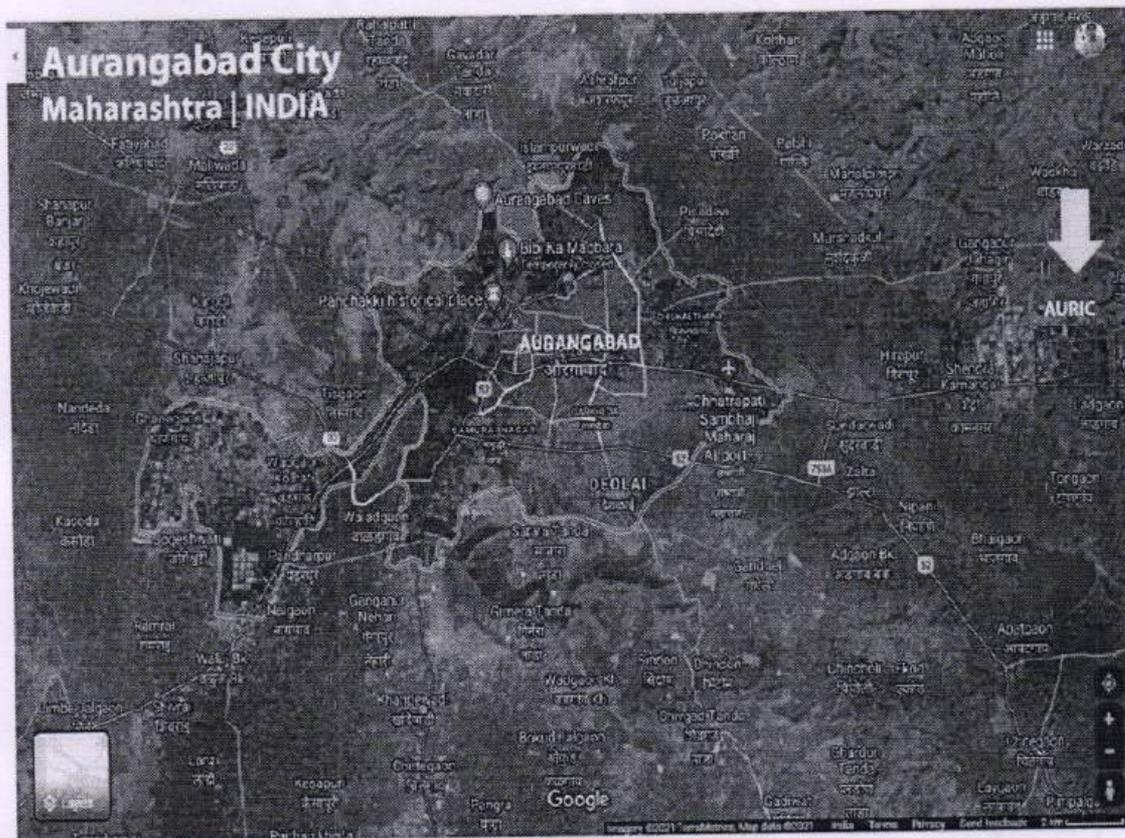
- Project brief and background
- Explaining design philosophy for site layout as well as building designs (Critical review)
- Critics on Site services details and functioning


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- Detailed analysis of site with Byelaws and Calculations with Inferences
- Project costing, affordability, income-based housing typology
- User feedbacks, satisfaction levels.
- Overall Merits and demerits

Note: Till case study students will work in groups but, further work will be at individual level. All the student of particular group will prepare their own concept designs and analysis.

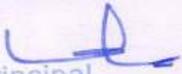
Site Selection and specifications:



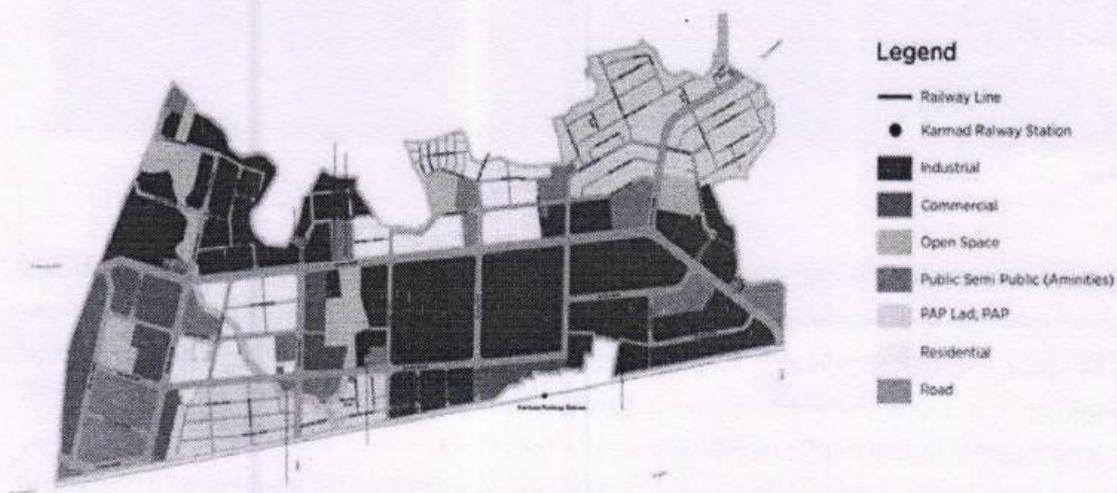
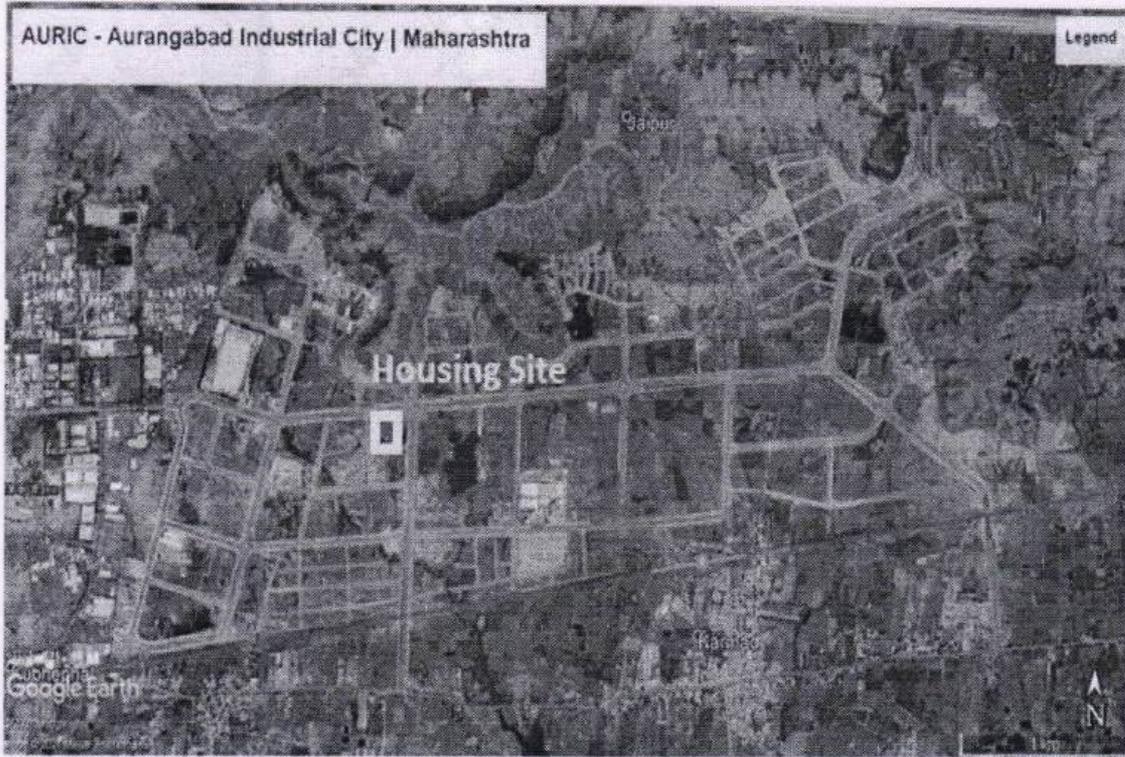
Aurangabad Industrial City (AURIC) is one of India's most well-planned, Greenfield & smart industrial cities being developed over an area of 10,000 acres in Maharashtra, as Part of the Delhi-Mumbai industrial Corridor (DMIC). Strategically located at Shendra and Bidkin near Aurangabad, it is an existing urban and industrial hub in the State. AURIC will tap into the huge potential for industrial advancement within the region.

AURIC's development and implementation is being undertaken by Aurangabad industrial Township limited (AriI), a Special Purpose Vehicle (SPV) between Maharashtra industrial Development Corporation (MIDC) and Delhi-Mumbai, Industrial Corridor Development Corporation (DMICOC).



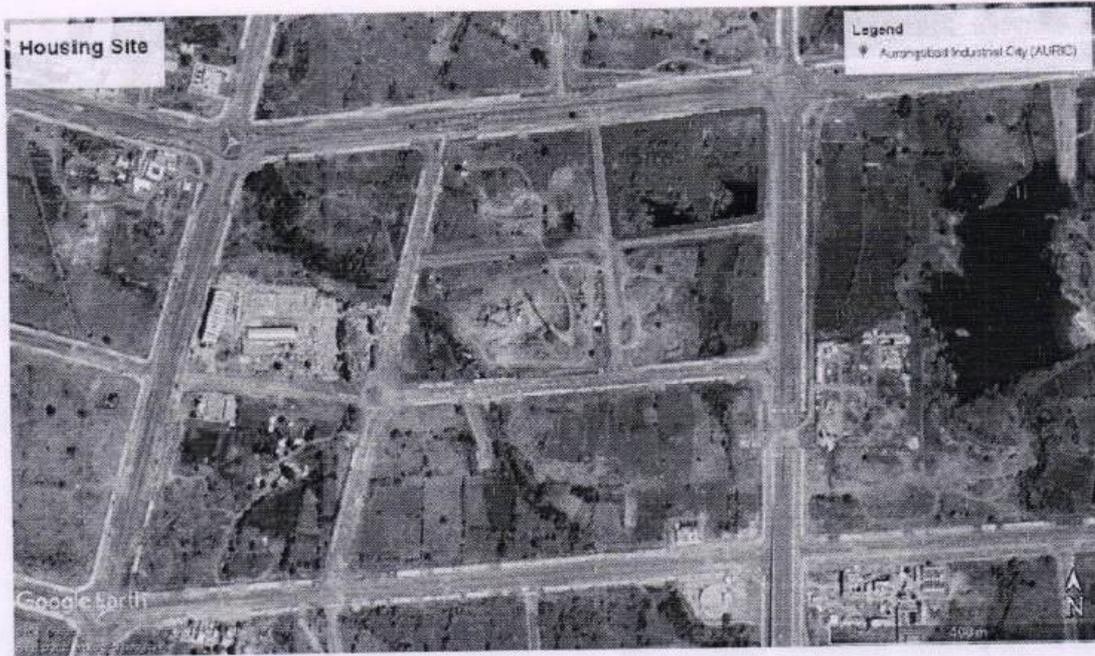

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Complementing the vision of AURIC, a state-of-the-art smart technology is being used with a focus on infrastructure that is clean, reusable, recyclable and industrial growth will be encouraged in targeted areas to build upon the industrial success of the region. Aurangabad city along with its existing airport and railways in its proximity to the industrial areas gives strong support for export-oriented businesses. AURIC is located at a distance of approximately 15 km from downtown Aurangabad and is 8 km east of the Aurangabad Airport.



Auric City a Greenfield Integrated Industrial Development project over an area of 10,000 Acres


 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Housing Site | Total Area: 3.8 Hectares (38000 Sq. M.)

Distribution of areas which needs to be fulfilled in Housing Complex Design.

Sr. No.	Area	Sq.M
1	Total Site area	38000
2	Open space @ 50%	19000
2	Total Built area @ FSI 1	38000
	Built up Area allotted for Housing	34200
4	Commercial Built-up Area in Sq. M. (10% of built up)	3800

Allocation of areas for various housing types

Unit Type	Area in Sq. M.	Built up Area	Percentage of Built up Area
A	40	13680	40
B	75	13680	40
C	100	6840	20

Note: Students will be given freedom to add or deduct 5 sq. m. area from unit type to design their specific housing units.



Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Nav Mumbai

Site Study and Analysis:

The students may conduct study of selected site in relation to the physical attributes of the site and surroundings, data collection for potential buyers, benefits, constraints and other market forces including land and property value. Following aspects of site listed below would be covered during site study and presentation will be done by the student. For Physical understanding of the site, students will be visiting the site in groups.

Following would be the focus area that needs to be studied and documented for further analysis.

1. Introduction of site
2. Location of Site
3. Site Geometrics i.e. shape and size
4. Development Norms (specific to site)
5. Site Context
6. Existing Site Conditions
7. Services and Existing Infrastructure
8. Site Synthesis (in terms of Zoning plan)

Site Geometrics- Shape, size, soil types, topography, slope, vegetation, etc.

Site context- study of site surroundings, development pattern, building types, architectural style, compositions, potential buyers, affordability range, etc.

Site services - Study and documentation of availability and condition of existing infrastructure and services such as approach roads, water supply, sewage disposal, electricity, street light, solid waste disposal, etc.

Amenities and facilities- Study and documentation of availability facilities and amenities around the walk able distance to the site such as, commercial centres, primary health facilities, clinic, education facilities, convenient shopping, etc.

Site feasibility- Land economics, circle rates, location and market value, property value in vicinity (per Sq. m cost), type and cost of construction, cost of infrastructure, cost of built flats and duplexes, etc.

Legal aspects- Study of development norms and standards, zoning regulations applicable particularly to the site, Norms for parking, road widening, provisions for informal sector, etc. Objective of the site study would be to analyse the factors that may affect the site planning and building designs. Student should present tentative **site planning** of their respective plot as outcome of the study.


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Conceptual design:

Contents of Concept +Site & Unit Development

- Site layout development based on the Site analysis
- Orientation of blocks
- Sketch/ Conceptual design of different Units
- Infrastructure Planning
- Block model in suitable scale
- Sketches & Views

Design Development & Finalization of Design (in appropriate scale)

- Based on the previous review the development of the design is required. The drawing required will be the following:
- Site Plan in suitable scale
- Unit Plan with proper furniture Layout
- Double line Plan(s) of individual buildings with column layout
- Elevations -2 (minimum)
- Sections-2 (minimum) thru' toilet and staircase
- Details of landscape or designs of non- residential building
- Views, detailed model and brochure of the project

Site detail and Services based drawing

- Site Plan with the all the built forms and open spaces.
- Site Plan showing the external services like parking, drainage, water supply, Sanitation, lighting and electrical layout etc.
- At least two Elevation of complete site with the built forms.
- Services for the individual block required – floor wise
- Details (Minimum 2- important details of building and 1- landscaped Court detail)
- Views



A handwritten signature in blue ink, consisting of a stylized 'B' followed by a horizontal line and a vertical stroke.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

B. ARCH DESIGN STUDIO 701

Fourth year – seventh semester, batch B, 2021

Bharati Vidyapeeth College of Architecture, Navi Mumbai.

Faculty in charge: Harshada Katkar
Nikhil Badrike
Pooja Patil

RESILIENT EMPLOYEE HOUSING

Preamble

In today's context of development in India and world over, urban centres are growing fast with nations focus on growth and development. As the service sectors are growing, urban area are magnets for work opportunities. This contributes to the pressure on housing needs in the city along with increase in land price. As a result of this situation, consumption of FSI available and even finding out ways to get additional FSI is trend in architectural field. Quality of housing becomes secondary because of such situation while primary focus of project is maximum consumption.

Students should be exposed to existing situation but they should be educated more about designing where primary focus is user and his comfort. For educational project of housing, we would be on understanding all aspects related to FSI but primary focus would be on layout design, clustering, house design and building typologies. Methodology adopted for this project would be primarily concentrating on housing as space making exercise where experiential journey of user is emphasized through built and open relationship.

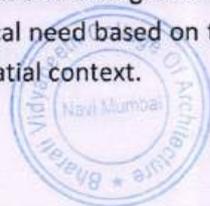
In new syllabus of fifth year all subjects are linked to thesis and students would be looking at design project through all lenses. This is very beneficial for students to understand relationship between subjects and practical aspect attached to it. Considering this, students of fourth year would also be looking at housing project through all lenses. That is why methodology adopted for this would be such that other subjects like urban design, town planning, environment and construction would also be part of housing design studio at some point.

Aim

To develop resilient housing for employees and to innovate design strategies for building holistic housing scheme which can elevate the quality of living.

Learning Objectives for the design studio

- Introduction to types of Housing
- Understanding different tangible and intangible layers of housing through case studies.
- Understanding housing at different scales like building level, neighborhood level and town level.
- Sensitising about social, environmental and financial viability.
- To understand the spatial implications and configuration of cultural and social aspects of community living.
- Learning of physical and psychological need based on their occupation, economic status, gender, age, social status etc. and application of it in spatial context.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D., Navi Mumbai

Programme brief

To design housing complex comprising of staff quarters for Bharati Vidyapeeth Campus in Kharghar. Total site area given is 6.85 acres.

Design Considerations

→ F.S.I. would be 1.0

→ Adequate 4-wheeler and 2-wheeler parking should be accommodated as per bye-laws.

The following are the distribution of areas which needs to be fulfilled in Housing Complex Design.

Area	100 %	Selected site (6.85 acres)
Infrastructure	10 %	Internal roads
Residential	65 %	Residential 65%
Amenities	5%	Shops for essentials, space for community, socio cultural and traditional activities, clinics and other necessary functions
Recreational ground	15%	Playground, parks, recreational ground, etc
Utilities/Services	5%	Fire, electrical and water services etc

Allocation of areas for various housing types Housing Type & Area Distribution

SR. No	STRUCTURE	USERS	NO OF UNITS	CARPET AREA	UNIT
1	Bungalow	Directors	8	1100-1200	SQ. FT
2	3 BHK	Professors	35	900-1000	SQ. FT
3	2 BHK	Associate Professors	40	750-800	SQ. FT
4	2 BHK (SMALL)	Assistant Professors	120	600-650	SQ. FT
5	1 BHK	Non-Teaching Staff	80	480-500	SQ. FT
6	Studio Apartment	P.G & P.H.D Students	30	280-300	SQ. FT

Methodology adopted.

In this entire studio freedom is given to student to alter steps or interchange steps as designing can't be linear process. Two ways process must be adopted for addressing all layers involved.

- Introduction of terms like town planning, urban design and housing and interrelationship.
- Housing typologies understanding.

- Analyzing tangible and intangible Parameters through case studies.
- Designing of neighborhood which can establish context for housing design.
- Working out staff break up according to classes (% of different class employees) and deriving area requirements of each.
- Modules designing for different typologies of houses according to user and site requirement.
- Clustering of modules according to building typology selected.
- Detailing out neighborhood as well as building with holistic approach.

Site and context



The area around the considered site in Belapur area, Bharati Vidyapeeth Navi Mumbai Complex. The highway on southeast, internal roads on northeast, which is also the boundary of the plot. The hills are there in the north and the plot the part of Bharati Vidyapeeth campus. Existing college buildings are there in the southern side of the side, i.e., Dental College, Architecture college and Engineering college.

The need of the project is to identify area measuring 27720.96 M.Sq. (6.85 acres). Resilient planning is required to be done on land, and the resulting scheme is to be used for architectural design of housing and amenity.

Pysspatol
AR. POOJA PATIL



[Signature]
Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH'S COLLEGE OF ARCHITECTURE, NAVI MUMBAI

SUBJECT: ARCHITECTURAL DESIGN – 8

5TH YEAR B.ARCH SEC-B

SEM - 9

2021-2022

FACULTY: VARSHA ANNADATE, VINITA DESHMUKH, PRIYANKA SINHA

ASSIGNMENT – 5 STAR BUSINESS HOTEL.

INTRODUCTION:

The hospitality lies in the center of the tourism industry with the basic idea as "Taking care of the travelers". The concept of Inns came into being, wherein it is a shelter by the road where travelers can stop to take rest and get some food. Hospitality, which was rather a part of the culture, emerged as a huge business opportunity. While it started merely with providing a place for resting, the traditional hospitality industry has witnessed immense transformations and diversifications in the past few decades. The hospitality industry is a broad category of fields within the service industry that includes lodging, food and drink service, event planning, theme parks, travel and tourism. It includes hotels, tourism agencies, restaurants and bars.

From a very basic type of lodging facility, hotels today are categorized under various tags as – according to standard of facility (standard, luxury, deluxe ...), function (leisure, business, health ...), location/context (ecotourism, heritage), finishes (boutique...) etc.

The hotel design is primarily about functional efficiency, circulation and a range of services. But more importantly it is about creating a space to make believe the world that one wants to be a part of even for a short while, about cherishing the memories of the associated experience. Therefore the site becomes an important determinant in its design. The nature of built mass, to be integrated as one structure allows to handle and devise an appropriate structural system and its architectural vocabulary. Security is another critical issue related with such public spaces. Substantial infrastructure provision as water and electricity is required, the concern of energy conservation as a base of energy efficient designs with an approach of sustainability.

THE DESIGN:

The design of a "5Star Business Hotel" is an academic programme, catering primarily to the segment of clientele travelling for business and tourists, with accommodation and adequate spaces fulfilling the efficient functional requirements and amenities such as a 24-hour **business** centre having meeting rooms, conference rooms with comfortable seating, online access, computers and a number of other office services such as copying and printing, in-house catering, convention centres and/or commute systems.

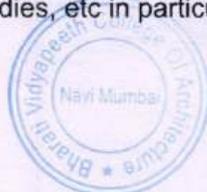
AIM OF THE PROJECT:

To design a five-star hotel with vast range of amenities to the travelers for business & tourists and provide the guests with highest levels of luxury, sophisticated accommodations and experiences that meet the expectations for comfort and décor.

OBJECTIVES:

The design objectives of the studio are as:

- Familiarization of the students with the program formulation, project methodology and design inputs for multiple activity projects thereby establishing a programme from both primary and secondary sources.
- Application of learnings from the subjects of Building Services, Structures, Bye-Laws, Environmental Studies, etc in particular as significant aspects of architectural design.



A handwritten signature in blue ink, consisting of a stylized 'A' shape with a horizontal line extending to the right.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- Incorporation of site analysis and context as an effective design determinant.
- Addressing and exploring specific project requirements – room typologies, nature of indoor and outdoor spaces/activities, etc related to hospitality provisions.
- To design a building that is in close connection with the surroundings.

SITE DESCRIPTION:

Two sites located in two different climatic zones are incorporated for the assignment. The class is divided in two groups and each group will work on one site. The sites are located in **Amravati – Andhra Pradesh and Kharadi – Pune**. These sites are admeasuring approx. 5 acres.

GENERAL REQUIREMENTS FOR DESIGN OF 5 STAR BUSINESS HOTEL:

DESIGN REQUIREMENTS:

S.NO.	AREAS /SPACE	CONSIDERATIONS
1	GUEST ROOMS: 250 rooms <ul style="list-style-type: none"> • Rooms, Suites 	Different types of rooms – deluxe, suites. Utilize maximum site and project potentials.
2	PUBLIC AREAS / FACILITIES: <ul style="list-style-type: none"> • Lobby and Reception area(Back office, Baggage handling, cloak room) • Restaurants / Dining areas – General and Theme, Bar • Café • Shops – Minimum 10 numbers • Rent out spaces/ Business centre – Conference rooms/ hall Banquet, Meeting rooms, Lounges, with other support facilities. • Health and Fitness facilities – Spa, Gymnasium, Swimming pool, Salon, Games room. 	Location and accessibility is important. Utilize maximum site and project potentials.
3	SERVICES / ADMINISTRATION: <ul style="list-style-type: none"> • Kitchen and Waste disposal system • Storages • Laundry • Staff facilities – Rest areas, Canteen, Lockers • Maintenance areas – Janitor rooms, Housekeeping room • Back Office - control room, accounts office, managers offices, record room, IT manager, telephone exchange, interview rooms, store rooms,pantry, security, cctvrooms, dining) • Services – space for HVAC system, Firefighting equipment, Water supply system, Electrical supply system, STP, Waste management system. • Public toilets 	Location with respect to interlinking of facilities, servicing, and function is important.

	<ul style="list-style-type: none"> • Building Management systems. • Security room 	
4	CIRCULATION: <ul style="list-style-type: none"> • Horizontal and Vertical systems – Internal -Corridors, Lobbies, Passages, Lifts, Staircases, External – Roads, Pathways 	Positioning of circulation cores(guests and service) and fire escape staircases are important.
5	PARKING: Four wheeler, Two wheeler	Separate areas for guest and staff parking may be dedicated.
Note: 1. These are primary requirements and can be changed as per individual design Interpretation. 2. Universal design approach should be considered.		
Planning Norms: 1. Maximum FSI – 1.5 (taken for academic exercise) 2. Maximum ground coverage = 40% 3. Soil survey report is not considered for the academic exercise.		

DRAWING REQUIREMENTS:

Drawings should be to appropriate scale.

1. Data analysis, Case-study analysis, Site analysis.
2. Design process adopted.
3. Site plan showing roof plan and site development.
4. Floor plans
5. Key plan wherever necessary.
6. Elevations – min. 4nos.
7. Sections – min. 4 nos.
8. Views
9. Walk through (optional)

SUBMISSION SCHEDULE:

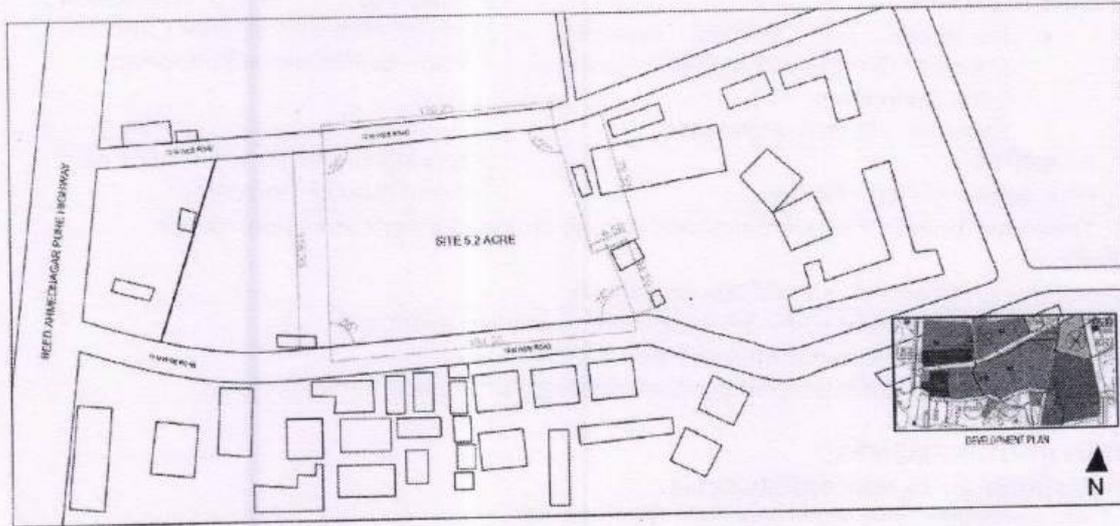
1. Introduction of assignment – 14th June 2021
2. Case- study presentation – 17th , 21st , 28th June – 1st , 5th , 12th , 15th July 2021
3. Data collection and site analysis – 5th July 2021
4. Zoning layout -19th , 22nd July 2021
5. Concept formulation – 29th July 2021
6. Design development 1- Single line plans, volumetric study with block models – 23rd , 26th August 2021
7. Design development 2 - Site plan-Roof plan with site development, Detailed floor plans along with volumetric dispositions, plan detailing(furniture, positioning of openings), Structural system, Elevations(Façade detailing, wall sections), Sections – 13th & 16th September 2021.
8. Pre-final – Complete set of drawing explain the scheme – 27th & 30th September 2021
9. Final Submission – 14th October 2021



(Handwritten signature)

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

SITES - AMRAVATI



SITES - PUNE - KHARADI



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

ARCHITECTURAL DESIGN BRIEF- Sem IX- (2021-22)

CLASS -5th Year Div.-A

Faculty: Prof. Kamakshi Vaidya , Prof. Mayuri Deshmukh, Prof. Pallavi Deshmukh

Course Objectives - (Mumbai)

- Collection and analysis of data related to Design topic.
- Application of technical knowledge to design detailing
- Understanding impact of socio economic factors on user requirements
- Study of climatic conditions, Site analysis, site planning
- Understanding traffic patterns and transportation.

Expected Course out come

Architecture for urban commercial, transportation, recreation, entertainment activities for masses with respect to following -

- Development of appropriate architectural forms, their grouping and composition,
- Architectural detailing
- Provision of required infrastructure and services
- Design of complex/ multifunctional buildings and surrounding spaces

TOPIC- 5 STAR BUSINESS HOTEL

Introduction:

India is a developing country. With the growth in corporate sector and to seek best of the opportunities, businessmen need to travel from one city to other. Thus, to make sure of meeting their business needs together with comfort, there are various business hotels in India. These hotels are majorly focused on the tastes and preferences of astute business travellers. Along with modern facilities and services, there are contemporary corporate facilities such as conference halls, meeting rooms, business centres and banquet halls. Moreover, these hotels also serve as great venue for hosting various corporate events, parties, launches, meetings, presentations, and more.

ITC's Hotels Business continues to be rated amongst the fastest growing hospitality chains operating under four distinct brands – 'ITC Hotel' for 'luxury', 'Welcom Hotel' in the 'five star segment', 'Fortune' in the 'mid-market to upscale segment' and 'WelcomHeritage' in the 'heritage leisure segment.' Recognising the changing preferences of the business traveller, ITC launched 'My Fortune' under the 'Fortune' brand, designed to cater to the upscale business traveller. ITC has a proposal for business and luxury hotel at Goa. (htt)




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

About Site:

The state of Goa, in India, is famous for its beaches and worship-able nature. This relatively small state is situated at the west coast of India, between the borders of Maharashtra & Karnataka, and is better known to the world as a former Portuguese enclave on Indian soil, attracting crowd from all around the world. Due to which, Tourism has flourished as a primary industry and has become backbone for the economy of the state. Part of which, is contributed by hotel industry, which is serving to the guests from globe. (DCR)

These scenarios are beneficial for business tourist as well as hotel operators; hence it is emerging as a best place for 5-star business-hotel with exposure from around the globe. (Tourism)

Site Location: Near Zuari river, Dona Paula Beach, Tiswadi, North Goa-403004.



Reference study material-

(n.d.). Retrieved from <https://www.itcportal.com/businesses/hotels.aspx>

DCR, G. (n.d.). Retrieved from <http://goaprintingpress.gov.in/uploads/The%20Goa%20Land%20Development%20and%20Building%20Construction%20Regulations%202010.pdf>

Mumbai, U. o. (n.d.). Retrieved from <http://archive.mu.ac.in/syllabus/B.Arch%20final%20year.pdf>

Tourism, M. o. (n.d.). Retrieved from [https://tourism.gov.in/sites/default/files/2020-02/Hotel Guidelines From%202019-01-2018.pdf](https://tourism.gov.in/sites/default/files/2020-02/Hotel%20Guidelines%20From%202019-01-2018.pdf)



[Handwritten signature]

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI.		
FIRST YEAR	SEMESTER 1	2022 - 2023
SUBJECT	ARCHITECTURAL DESIGN	
SUBJECT COORDINATOR	Ar. Himika L., Ar. Sangam N., Ar. Justin T., Ar. Tejesh N., Ar. Kajal A., Ar. Pragya A., Ar. Yamini P. Ar. Tushar K., Ar. Yogita G.	
TOPIC	KIOSK DESIGN AT KHARGHAR	
INTRODUCTION	The project aims to establish a kiosk refers to a small, temporary, stand-alone booth used in college campus for multipurpose activities. Kiosks may be manned by one or two individuals. These booths can be low-cost strategies that are great alternatives for new, emerging entrepreneurs.	
AIM	To design a Kiosk as a temporary, stand-alone booth for multipurpose activities.	
OBJECTIVES	<ol style="list-style-type: none"> 1. Understanding the human body in space 2. Activities and their relationship with spaces 3. Understanding the measurement drawings. 4. Scales and proportions 5. Understand the Concept Development process 6. Getting involved in the Form Development Process leading to Design development 	
EXPECTED OUTCOME	<ol style="list-style-type: none"> 1. Elevations and Floor Plan showing all kiosk dimensions, including countertop displays, fixtures 2. Color drawing, rendering or sketches of design 3. Material finish of cabinet, countertop 4. Sign elevation, sections and details 5. Key plan showing location of the kiosk in the site plan. 	



TEJESH.
Tejesh

Ar. Sangam N.
Ar. Kajal A.
Ar. Pragya A.

[Handwritten signature]

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI.		
FIRST YEAR	SEMESTER 2	2022 - 2023
SUBJECT	ARCHITECTURAL DESIGN	
SUBJECT COORDINATOR	Ar. Himika L., Ar. Sangam N., Ar. Justin T., Ar. Tejesh N., Ar. Kajal A., Ar. Pragya A., Ar. Yamini P. Ar. Tushar K., Ar. Yogita G.	
TOPIC	ARTIST'S BUNGALOW AT KHARGHAR	
INTRODUCTION	<p>In today's context, many people prefers work from home, often in a dedicated study or home office. An "artist" is the person whose work involves paints and canvases, or cameras, tripods, lighting and much more. When it comes to residential workspaces, artists and creatives have quite specific requirements. Artist working in this sphere find themselves to do so several thing at the same time. However, they needs for functional spaces with a highly developed aesthetic. And, of course, they also need to blend these areas seamlessly into a home.</p> <p>The design assignment focuses on creating a bungalow for an artist. Each student need to identify one artist as a client for their bungalow. This would include basic requirements of luxurious house. In addition to that, a STUDIO should be design according to artist's requirement.</p>	
AIM	To design a bungalow with understanding of structural behavior (load bearing or frame structure).	
OBJECTIVES	<ul style="list-style-type: none"> • To understand the client's design requirement. • To understand the programmatic design brief. • Designing with the consideration of site context, climate and related issues. • Stimulating thought process and conceptual abilities through models and sketches. • Development of appropriate architectural forms. 	
DRAWING REQUIREMENTS / DELIVERABLES		
1) Clients' introduction & Data collection		As required
2) Case studies		As required
3) Site selection & Analysis		As required
4) Concept / Theme details and study model		As required
5) Roof plan		1: 100
6) Site plan		1:100
7) All floor plans (Detailed plan)		1:100
8) Sections and Elevations		1:100
9) 3D view and perspective sketches		As required
10) Physical Model		1:100
SCHEDULE OF WORKING AND ASSESSMENT		
Introduction of assignment (Artist's interview and other study)		
Case study		
Site visit and analysis		
Conceptual design with study model		
Preliminary stages – single line drawings with study model		
Design development 1 – Double line plan		
Design development 2 – Double line plan with section		
Design development 3 – Detail plan with sections and elevations		
Pre-final design 1 – All drawings		
Pre-final design 2 – final sessional marking for all drawings		
Final submission		

Ar. Kajal A.

Ar. Pragya A.

Ar. Tejesh N.

Principal
Bharati Vidyapeeth
College of Architecture
Bhamburda Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

TOPIC - ARTISTS'S BUNGALOW AT KHARGHAR			
SITE AREA - 600 SQM			
DESIGN REQUIREMENT			
SPACE	UNIT	AREA (SQM)	TOTAL AREA (SQM)
HOUSE			
Entrance lobby and drop off point	As required	As required	As required
Drawing room	1	40	40
Kitchen + working area + store	1	30	30
Dining	1	20	20
Powder room + laundry	1	5	5
Common toilet	1	5	5
Guest bedroom + Toilet	1	25	25
Kids bedroom + Toilet	2	30	60
Master bedroom + Toilet	1	30	30
Family room (leisure / theater/ gym/ games)	1	40	40
Total area			255 sqm
STUDIO			
Workshop / Multipurpose room	1	50	40
Office/ Meeting room	1	25	15
Common Toilet	1	5	5
Total area			60
Total Built- up area			315
OTHER			
4-wheeler parking (Size - 2.5 m x 5.0 m)	2	25	50
2-wheeler parking (Size - 1.0 m x 2.0 m)	2	10	20
Swimming pool	As required	As required	As required
Garden	As required	As required	As required


Ar. Sangam N.



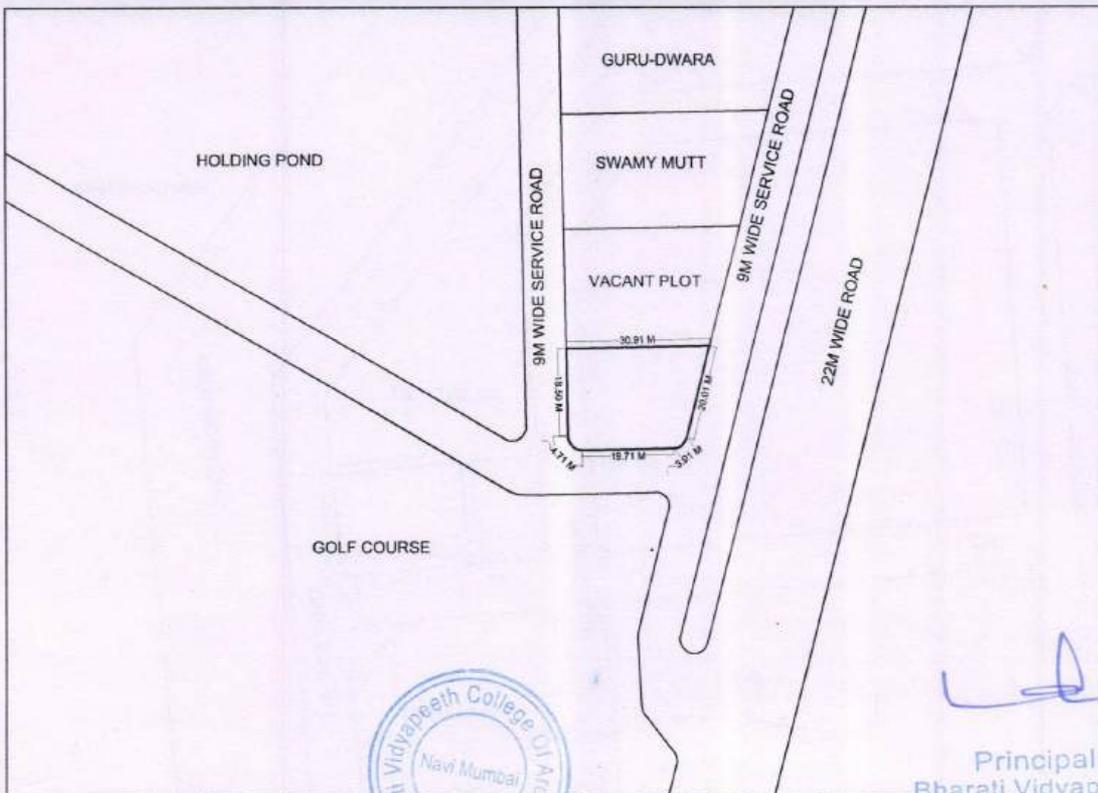
BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

ARCHITECTURAL DESIGN - SEM 2

SITE LOCATION :-
Sector 22, Near Kharghar Golf Course,
Kharghar, Navi Mumbai, 410210

AREA :- 600 SQ.M

1



[Handwritten Signature]

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

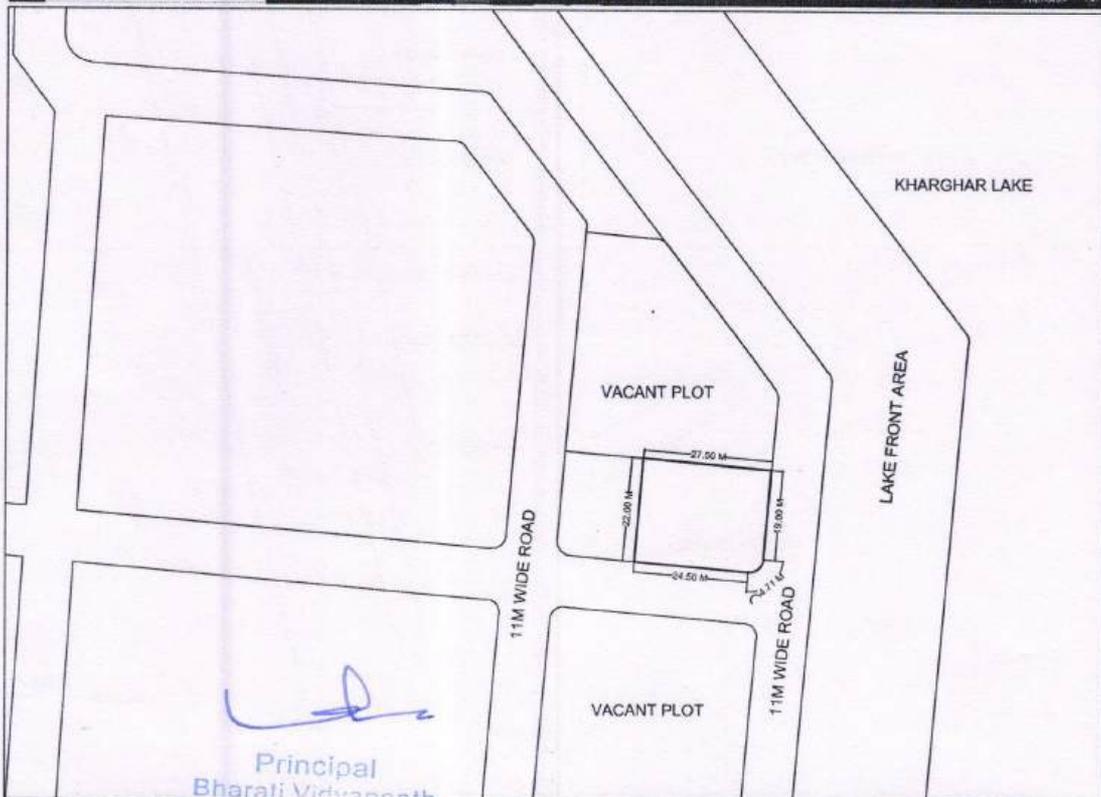
BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

ARCHITECTURAL DESIGN - SEM 2

SITE LOCATION :-
Near Vastu Vihar, Sector 17, Kharghar, Navi
Mumbai, 410210

AREA :- 600 SQ.M

2



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Bharati Vidyapeeth College of Architecture, Kharghar
Second Year Architectural Design Studio III 2022-23
Project Title: The Z.P. School of Promethean (having the skill and imagination to create a new things)
Faculty: Ar. Suchita, Ar. Milind Bidve, Ar.Anupama, Ar.Anandi, Ar. Pooja, Ar.Prachi, Ar.Juhili.

Introduction:

In ancient times, India had the Gurukula system of education in which anyone who wished to study went to a teacher's (Guru) house and requested to be taught. If accepted as a student by the guru, he would then stay at the guru's place and help in all activities at home. This not only created a strong tie between the teacher and the student, but also taught the student everything about running a house. The guru taught everything the child wanted to learn, from Sanskrit to the Holy Scriptures and from Mathematics to Metaphysics. The student stayed as long as she wished or until the guru felt that he had taught everything he could teach. All learning was closely linked to nature and to life, and not confined to memorizing some information.

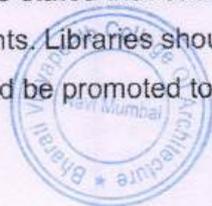
The modern school system was brought to India, including the English language, originally by Lord Thomas Babington Macaulay in the 1830s. The curriculum was confined to "modern" subjects such as science and mathematics, and subjects like metaphysics and philosophy were considered unnecessary. Teaching was confined to classrooms and the link with nature was broken, as also the close relationship between the teacher and the student.

New exposure to Zila Parishad School in Maharashtra.

According to the article printed in Times now news on 8th march 2021, **Maharashtra government to transform 500 Zilla Parishad schools into model schools.**

Maharashtra government has decided to transform the Zilla Parishad schools in the state into model schools. These schools will be upgraded for infrastructure, teaching, and learning outcomes. As per the TOI report, in the infrastructure improvements, the government has proposed to provide an attractive building, ICT and science labs, playgrounds, etc. Facilities such as independent toilets, drinking water facilities, well-maintained buildings and classrooms, playgrounds, sports equipment, ICT labs, science labs and libraries should be available.

The notification also stated that basic levels of reading, writing and computational skills will be essential for students. Libraries should provide diverse books, and initiatives including self-study groups should be promoted to encourage creative and critical thinking, scientific



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

temperament, collaboration and communication, it added.

The aim of this transformation is to improve the quality of education to attract more students. Also, to encourage students to read out and speak aloud in class and be able to write with confidence.

Aim:

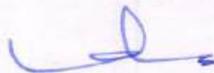
The design aim at creation a healthy positive space for underprivileged children. The program comprises of learning space and recreational space to ensure a mental and physical development in children.

The project aspire at grooming and training this children for better prospect. This would open up various avenue for their future, social and economically. This would be a place that they can call a home, a senses of belonging, a family, a place where they could eat, play and learn. The creative and vocational ability of children will be tapped and will further be exhibited and retailed.

The program will offer hale and hearty environment for students which will encourage them to come to school every day.

Objectives:

- Understanding space requirements for various activities for small groups of people.
- Understanding indoor and outdoor spaces created by built forms.
- Design of spaces suitable for the intended activity.
- Design of spaces as per the behavioral needs of individuals and groups.
- Design and detailing of built form and required infrastructure with reference to methods of construction, and materials
- Built and Un-built spaces for multiple activities for a small group of people.
- Built and Un-built spaces for relatively larger group



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Proposed Site:

Site Located near Shree Swaminarayan Gurukul International at Hatnoli, Panvel, near N.D. studio.
Area – 12006.86 Sq.Mt.

Site Location



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design Program:

1. Reception /
Waiting, Toilets -
30sq.mt.
2. Admin (4 Nos.), Accounting Staff (2 Nos.), Principal cabin, Non-Teaching Staff
room (6 Nos.), Drinking Water, Toilet (Student and Staff Toilet), etc. - 50 Sq.mt
3. Teaching Staff room with Toilet (12 Nos.), Store Room - 50 Sq.mt.
4. Classroom-
 - a) Nursery, Junior and senior Courses with 40 Students Each with
toilets. - 66 sq.mt.each.
 - b) Primary (1st to 4th) - 40 Students Each with toilets.- 70 sq.mt.each.
 - c) Secondary (5th to 10th) - 40 Students Each with toilets.- 70
sq.mt.each.
5. Laboratory (Physics & IT,
Chemistry, Computer lab and
Biology) -20 Students Each with
toilets. - 60 Sq.mt each
6. Art Room - 40 Students -100
Sq.mt.
7. Sports Room (Indoor games) and
Storage - 100 Sq.mt each.
8. 03 Workshops -40 Students Each
-200 Sq.mt each
9. Kitchen & Dining - 150 People
10. Stationary Shops - 1 No's -30 Sq.mt
11. Storage wherever Necessary
12. Auditorium -500 people
13. Farm Activity / Animal Shades
14. Playground & Amphitheatre
15. Parking - Visitors (10 Cars,20 Bikes/Cycle)
Staff (6 Cars, 10 Bikes/Cycle)
Bus parking -04 Nos.
 - R.G - 20 % of Plot
 - Water body/Landscape
 - Services (Water Supply & Drainage)



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Portfolio requirements:

1. Site analysis
2. Case Studies
3. Concept Sheet
4. Master Plan/ Site Plan- (Scale 1:200)
5. Site Section (Scale 1:200)
6. Form Development-Study/ Block Model (Scale 1:200)
7. Detailed Ground and 1st Floor Plans (Scale 1:100)
8. Detailed Roof plan Floor Plans (Scale 1:100)
9. Sections (Scale 1:100)
10. Elevation (Scale 1:100)
11. Final Model/ Views/ Sketchy Views/ Isometric Views (1:500/1:250)
12. Interesting features/ Construction Details.

Notes:

- The assessment will be more oriented towards the design process followed by the student rather than the final product.
- However, an emphasis will be put on preparing a complete set of presentation drawings including plans, sections and elevations adopting graphical techniques such as perspectives, axonometric views etc. and a model thereby improving overall skill set.

LESSON PLAN

Second Year B. Arch. A, B & C

Subject: ARCHITECTURE DESIGN 3	Faculty: Ar.Milind, Ar.Anupama, Ar. Suchita, Ar.Pooja, Ar.Prachi, Ar.Anandi, Ar.Juhili	SESSION	2022-2023	SEMESTER	III
---------------------------------------	--	---------	-----------	----------	-----

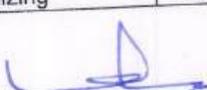
Week	Date	Topic	Sub-Topics	Methodology of Teaching	Assignment (Expected output)
Week 1	02-08-22	Introduction to the topic	Briefing about the topic	Lecture	-
	05-08-22		Briefing about concept, case study and site analysis	PPT and Discussion	-
Week 2	09-08-22	Case study	Live case study visit	OD Visit	-
	12-08-22				
Week 3	16-08-22	Case Study	Presentation student (group's) from	PPT and Discussion	Case study PPT submission
	19-08-22				



(Handwritten signature)

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Week 4	23-08-22	Concept , Area statement and requirement finalization	-	Lecture & Discussion	Study the different areas and concept
	26-08-22		-		
Week 5	30-08-22	Site Analysis / Zoning / Planning Layout	-	Lecture & Discussion	Working on site analysis
	02-09-22		-	Lecture & Discussion	Working on zoning and planning
Week 6	06-09-22	Site Analysis / Zoning / Planning Layout	Presentation including detailed Conceptual drawing and sketching	PPT	Finalizing the zoning
	09-09-22				
Week 7	13-09-22	Conceptual block site model	-	Lecture & Discussion	Final site block model
	16-09-22	Single line Floor planning	-	Presentation including detailed drawing	Sketches and planning done during lecture
Week 8	20-09-22	Single line Floor planning	-	Presentation and Discussion	Finalizing planning done during lecture
	23-09-22	Double line Floor planning	-	Presentation and Discussion	Sketches and planning done during lecture
Week 9	27-09-22	Double line Floor planning	-	Presentation and Discussion	Sketches and planning done during lecture
	30-09-22	Double line Floor planning	-	Presentation and Discussion	Sketches and planning done during lecture
Week 10	04-10-22	Double line Floor planning	-	Final presentation	Finalizing planning done during lecture
	07-10-22	Double line Floor planning with structural and service detail	-	Presentation and Discussion	Understanding the Structural and services detail
Week 11	11-10-22	Plans with all detail and furniture layout too	-	Presentation and Discussion	Drafting done during lecture
	14-10-22	Section & Detail model	Working on section and model	Presentation and Discussion	Drafting done during lecture
Week 12	18-10-22	Section /Sectional views	Submit section	Presentation and Discussion	Drafting done during lecture
	21-10-22	Elevation & Detail model	Working on elevation and model	Presentation and Discussion	Drafting and sketching done during lecture
Week 13	25-10-22 to 10-11-22			Presentation and Discussion	Drafting done during lecture
	11-11-22	Elevation	Submit elevations	Presentation and Discussion	
Week	15-11-22	Model Finalizing	Finalizing the project	Presentation	-


 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

14			model	n and Discussion	
	18-11-22	Pre final portfolio submission	-	-	Entire portfolio
Week 15	22-11-22	Final portfolio submission	-	-	Entire portfolio
Subject Coordinator- Ar.Anupama					

P. Patil
AR. POOJA PATIL

Rangari
AR. PRACHI-RANGARI

Suchita Pawar
Ar. Suchita Pawar

Juli S. Puri
AR. JULI S. PURI

Milind Bidave
Ar. Milind Bidave

[Signature]



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth College of Architecture, Navi Mumbai

Project Title – Rural Development Center

<u>Subject</u> 401: Architecture Design Studio IV	<u>Year Semester</u> 2 nd Year 4 th Semester
<u>Subject Co-Ordinator</u> Ar.Suchita P., Ar.Bhavna S., Ar.Vrushali, Ar.Milind B, Ar.Anshul,R., Ar.Anandi L., Ar.Amod K., Ar.Pooja P., Ar.Prajwal P.,Ar.Juili P.	<u>Academic year</u> 2022-2023

Introduction:

A center that focuses on traditional and Rural Based Architecture Showcasing Local Craftsmanship and Materials. It will also offer Prospects outside of big cities Particularly for the communities that might be left behind. It can also offer job/Income for the growing Communities.

Arts and culture aid to foster positive attitudes in learning centers and beyond. Arts bring different people together, and culture helps to appreciate each other with their diversity. Skill development training centers are very necessary especially for rural youth in order to engage them in constructive and income generating activities. When peoples' skills are improved, they produce more, become happier, and contribute more to the wellbeing of their families, communities to achieve this noble goal and provide employable skills to youth of Villages, A center that focuses on traditional and Rural Based Architecture Showcasing Local Craftsmanship and Materials. It will also offer Prospects outside of big cities particularly for the communities that might be left behind. It can also offer job/Income for the growing Communities.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Aim:

To develop a **Rural Development Center** that creates a space which includes **Rural Community, Farming and Socio-Cultural Spaces for Local Community**. It's a space that will aim at connecting to its contextual history while inviting new experiences and meanings.

objective:

- To design spaces suitable for life style in rural/semi urban areas
- To conserve the natural surroundings and social fabric suitable for communities
- To design the buildings suitable to climatic conditions, by using local materials and traditional methods of construction.
- To understand and provide specific infrastructure required for communities.

Site Details

1. Location = Jawahar, Palghar
2. Plot area = 4 acres



[Handwritten signature]

Principal
Bharat Vignesh
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design requirement with area Design requirement with area

SR.NO	SPACE REQUIREMENT	NO	NO.OF PPL	AREA
1	Administration	1 Nos		
	1. Lobby with Reception 2. Waiting Area 3. Admin Office 4. ATM 5. Common Toilet			
2	Vocational Training School	2 Nos	20 Students Each	
3	Workshop	2 Nos	20 Students Each	
4.	Kitchen + Dining Area	1 Nos	50 People	
5.	Residential Unit			
	A) Dormatories	2 Nos	25 People Each	
	B) Cottage	5 Nos	3 People Each	
6.	Staff Quarters	5 Nos		
7.	Shops Exhibition Area	10 Nos		
8.	Worship Place	-		
9.	Farm Activity/Animal shade	-		
10.	Playground Amphitheatre	-		
11.	Parking Visitors (20Cars,25 Bikes/Cycle) Staff (5 Cars, 10 Bikes/Cycle)	-		
12.	Waterbody / Landscape	-		
13.	Services Water Supply & Drainage	-		
14.	MedicalUnit OPD Emergency-First_Aid	1 Nos		
15.	Library + Computer Lab	1 Nos		



(Handwritten Signature)

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design portfolio requirements

1. Master Plan- (Scale 1:250)
2. Site Section (Scale 1:250)
3. Concept Sheet
4. Form Development-Study/ Block Model
5. Case Studies.
6. Detailed Plans (Scale 1:100)
7. Sections (Scale 1:100)
8. Elevation (Scale 1:100)
9. Final Model/ Views/ Sketchy Views/ Isometric Views (1:500/1:250)
10. Interesting features/ Construction Details.

Note:

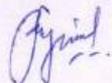
1. The assessment will be more oriented towards the design process followed by the student rather than the final product.
2. However, an emphasis will be put on preparing a complete set of presentation drawings including plan, Section and elevation adopting graphical techniques such as perspective, axonometric views etc. and a model thereby improving overall skill set.

All reviews carry marks

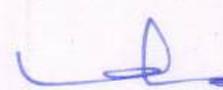

AR. POOJA S. PATIL


Ar. Suchita Pawar


Ar. Milind Bidave


AR. PRAJWAL PATIL


AR. JULI PURI


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth College of Architecture, Navi Mumbai

Nature Interpretation and Research Center

Subject 501: Architecture Design Studio V	Year Semester 3 rd Year 5 th Semester
Subject Co-Ordinator <u>Ar. Shraddha K, Ar. Himika L, Ar. Madhura N,</u> <u>Ar. Sourasis B, Ar. Sangam N, Ar. Aisha S,</u> <u>Ar. Kajal A, Ar. Pragya A, Ar. Tejesh</u>	Academic year 2022-2023

Introduction

A nature interpretation center is a multi-faceted entity which is an institution for dissemination of knowledge of natural heritage.

The main objectives of this centre, located in an area near Manali, Himachal Pradesh its forest and natural reserve is its focus on nature education and interpretation tours, in an effort to create awareness and to promote biodiversity, conservation and eco-tourism. The central concept driving the project is to cherish the sanctity of nature. An interpretation centre can be a viable solution for effective communication of relevant information in various areas to establish a natural reserve and where sustainability can be an important factor for tourism development. Unlike traditional museums, interpretation centers do not usually aim to collect, conserve and study objects; they are specialized institutions for communicating the significance and meaning of subjects. They work to educate and raise awareness

Aim:

To propose an architectural design for nature interpretation & research center.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Objective

The objective of this project is to involve the design of a building that will provide an integration of visitor / tourist information, education and community resources, office, and technology spaces in an urban context.

- To understand and apply site planning considerations in design context.
- To understand the Built and Un-built spaces required to cater to meaningful relation between them and the need to consider the environment and sustainable approach

Intent:

The Nature interpretation centre will become a part of the cultural landscape of the region. A successful collaboration can be achieved between local organizations

- Specialized institution for communicating the significance of nature and conducting research.
- As a tourist destination there will be scope for developing hospitality for tourist and it will help the local people for business.
- Accommodation facilities in sustainable and merge with sustainable architectural typology
- Specialized institution for communicating the significance of nature and conducting research.

Studio objectives:

The studio exercise shall focus on designing a multi-functional space in an urban setting including application of development controls rules and local bye-laws. Emphasis may also be laid on site planning as well as services at building and at site level.

1. To develop research skills through literature review and case study analysis
2. To understand functioning of community spaces in urban areas.
3. To design the buildings suitable to climatic conditions ,by using local materials and traditional methods of construction.
4. To incorporate architectural technologies relevant to earthquake resilience
5. To conserve the natural surroundings and social fabric
6. To stimulate thought process and conceptual ability through models and sketches.
7. Improving drawing, presentation, and model making skills.
8. To follow the principles of universal design



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Site Details

1. Location = Manali, Himachal Pradesh
2. Plot area = 5 acres
3. Built up area = 3500 sq.m



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Design requirement with area

S. No.	Space requirements	No.	Area	Total
1.	Administration			300
	1. Lobby area with reception	1 No.	80	
	2. Ticket counter	2 Windows	20	
	3. Admin office (with back office)	1 No.	60	
	4. Office for the head (Attached toilet)	1 No.	20	
	5. Conference room	1 No.	25	
	6. Pantry	1 No.		
	7. Storage	1 No.		
	8. Common toilets	Ade.		
	9. Lift / Staircase			
2.	Cultural centre			1500
	1. Audio visual room	1 No.	80	
	2. Exhibition rooms	2 Nos.	100 each	
	3. Multipurpose hall	1No.	150	
	4. Workshops (with ancillary spaces)	6 Nos.	60 each	
	5. Souvenir shops	8 Nos.	10 each	
	6. Gallery	1No.	80	
	7. Food court	-	100	
	8. Store room	1 No.		
	9. Auditorium	1 No.	200 Cap.	
	10. Open air theatre			
	11. Construction yard (Near workshop)	Ade.		
	12. Common toilets			
	13. Lift / Staircase			
3.	Research cell			250
	1. Library	1 No.		
	2. Archive room	1 No.		
4.	Others			450
	1. Guestrooms for experts	4 Nos.	25 each	
	2. Dormitory for visitors	5 Nos.	40 each	
	3. Mess / Dining area		100	
	4. Lift / Staircase			
5.	Adaptable space as per research, program or case study (based on individual students' needs)			300-500

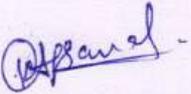


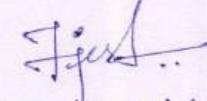
Design portfolio requirements

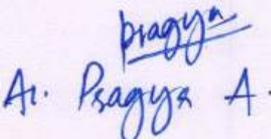
1. Site analysis, case studies, and concept development
2. Site Plan showing roof plan and site sections (Scale = 1:500)
3. Site Plan showing ground floor plan (Scale = 1:500)
4. All floor plans with furniture layout and structural details (Scale: 1:200)
5. All elevations(Scale: 1:200)
6. Building sections showing critical details (Scale: 1:200)
7. Views, detailed site model and block model.

Note:

1. The assessment will be more oriented towards the design process followed by the student rather than the final product.
2. However, an emphasis will be put on preparing a complete set of presentation drawings including plan, Section and elevation adopting graphical techniques such as perspective, axonometric views etc. and a model thereby improving overall skill set.
3. All reviews carry marks


AR. KAJAL A.


TEJESH.


Ar. Pragya A.





Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth College of Architecture, Navi Mumbai

Educational Institute for Architecture and Design

Subject 601: Architecture Design Studio VI	Year Semester 3 rd Year 6 th Semester
Subject Co-Ordinator Ar. Ruta P, Ar. Shraddha K, Ar. Tejeswini H M Ar. Harshada P., Ar. Madhura N, Ar. Bhavika, Ar. Neha, Ar. Nikhil B., Ar. Amitkumar	Academic year 2022-2023

Introduction

Design is a strategic problem-solving process that drives innovation, builds business success and leads to a better quality of life through innovative products, systems, services and experiences. The design professions are intended to improve the quality of products by working on functional, technical and aesthetic and aspects. Designers usually work in multidisciplinary teams and the various project stakeholders are involved throughout the creative and innovative process. Design involves a wide spectrum of professions in different disciplines like graphic design, textiles, interior design, fashion design, product design, animation, furniture design, jewelry design, computer game design, theater design, and many more.

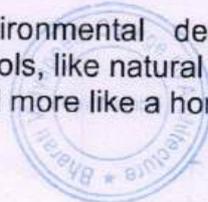
Design school plays a crucial role in providing both real-world and virtual environments. It helps in developing a variety of skills including creative thinking, analytical thinking, and a keen eye for detail. To satisfy the needs of customers, businesses, and institutions, creative and problem-solving skills are essential in both the public and private sectors. This needs an atmosphere that will help in nurturing the creative nature of students.

Aim:

To propose an architectural design for Educational Institute for Architecture and Design.

Objective

1. To create an environment that encourages the learning process by addressing issues of emotional and physical well-being.
2. To integrate environmental design issues that are traditionally ignored in contemporary schools, like natural ventilation or day lighting, the school becomes less of an institution and more like a home.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design Programme Proposed site at seawoods

1. Administration area

- Managers cabin + toilets – 20 Sq. m.
- Storage area – 15 Sq. m.
- Staff area - 25 Sq. m.
- Waiting area - 25 Sq. m.
- Toilets (separate for staff and visitors) - as per requirement
- Pantry – 10Sq. m.
- Meeting Room - 20-25Sq. m.

2. Multi - purpose (and/or) Exhibition space-

Capacity 250 people

Can be open to sky or closed space

- Stall - 50-60m²
- Offices - 50-60m²
- Toilets (can be common or separate) - as per requirements

3. Shopping

- Formal / Permanent- 10 No. - 5 of 20Sq. m. and 5 of 10Sq. m.
- Informal / Temporary - 5 - 10 No. - as per requirements

4. Food zone - 100 seats

- 1 Restaurant (kitchen, pantry, toilets etc.) - 50-70 seats + outdoor seating (With kitchen 1/3rd the total area)
- 1 Cafeteria (kitchen, pantry, etc.)
- 10 food stalls – 10 Sq. m. each

5. Mini theatre/ Amphitheatre (200 - 250 people)

6. Public toilets - as per standards (considering maximum footfall 1000)

7. One additional space can be added as per your requirement (library, spa, etc.)

8. Pathways, jogging tracks etc. (landscaping) as per design

9. Parking lot (considering maximum footfall 1000)

- Two - wheelers
- Four - wheelers
- Bus

Recommended Readings

1. Urban Design-Street and Square by Cliff Moughtin.
2. The Use of Public Plazas in China and the United States: Measuring the Differences Using Direct Observation in Boston and Chongqin



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI**ARCHITECTURAL DESIGN****SEMESTER - VI****AY 2022-23****TOPIC: SCHOOL OF ARCHITECTURE AND DESIGN****AREA PROGRAM****B.ARCH. (5 YEARS)**

INTAKE - 80

TOTAL STRENGTH - 400

STUDENTS NO. OF FACULTY - 28

NO. OF NON

TEACHING STAFF - 12

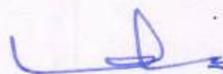
SR NO.	SPACES	AREA/PERSON	NO. OF STUDENTS OR STAFF	NO.	INDIVIDUAL AREA (SQ.M.)	TOTAL (SQ.M.)
1	ADMINISTRATION AREA (RECEPTION, WAITING)			1	80	80
2	RECEPTION, WAITING AND PANTRY			1	30	30
3	PRINCIPAL CABIN (ATT. TOI.)			1	40	40
4	CONFERENCE ROOM	2 SQ.M		1	60	60
5	LIBRARY		40	1	180	180
6	MULTIPURPOSE HALL	2 SQ.M	100	1	200	200
7	STAFF ROOM/PANTRY		28	2	100	200
8	STAFF LOUNGE			1	60	60
9	STUDIOS	3 SQ.M	40	9	120	1080
10	LECTURE HALL	2 SQ M	80	4	60	240
11	EXAM SECTION			1	80	80
12	SUBMISSION ROOM		40	1	80	80
13	COMMON ROOM BOYS/GIRLS			2	40	80
14	MATERIAL LAB	1 SQ.M	40	1	40	40
15	CLIMATOLOGY LAB	1 SQ.M	40	1	40	40
16	COMPUTER LAB	3 SQ.M	40	2	120	240
17	SURVEYING LAB	1 SQ.M	40	1	40	40
18	NASA ROOM	2 SQ.M	40	1	60	60
19	DOCUMENTATION ROOM	2 SQ.M	40	1	80	80
20	MODEL MAKING ROOM	3 SQ.M	40	1	80	80
21	CONSTRUCTION WARD	2 SQ.M		1	200	200
TOTAL						3190




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

COMMON AREAS						
SR NO.	SPACES	AREA/PERSON	NO. OF STUDENTS OR STAFF	NO.	INDIVIDUAL AREA (SQ.M.)	TOTAL (SQ.M.)
1	ADMIN		8 NOS.			90
2	LIBRARY AND READING ROOM					180
3	EXAMINATION ROOM			1		80
4	COMMON ROOM BOYS/GIRLS			2	30	60
5	AV ROOM			1	90	90
6	PRINTING LAB			1	60	60
7	3D PRINTING LAB			1	60	60
8	COMPUTER LAB		20	1	90	90
9	INFORMAL INTERACTIVE SPACE				ADEQUATE	
10	SPORTS ROOM	2 SQ.M		1	60	60
11	STATIONARY SHOP			1	40	40
12	SEMINAR HALL					120
13	MULTIPURPOSE HALL					120
14	CANTEEN					250
15	TOILETS AND STORAGE SPACE				ADEQUATE	
TOTAL						1300

B.DES (4 YEARS)	
ANY 3 COURSES FROM THE 6 COURSES	TOTAL STRENGTH - 240
STUDENTS	



Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

INTERIOR & FURNITURE DESIGN

TOTAL INTAKE -20		TOTAL STRENGTH- 80			TEACHING STAFF- 8NOS.	
SR NO.	SPACES	AREA/PERSON	NO. OF STUDENTS OR STAFF	NO.	INDIVIDUAL AREA (SQ.M.)	TOTAL (SQ.M.)
1	HOD ROOM (WITH ATT. TOI.)	3 SQ.M	1	1	30	30
2	STAFF ROOM/PANTRY	6 SQ.M	7	1	60	60
3	STUDIO	3 SQ.M	20	4	60	240
4	MATERIAL LAB	2 SQ.M	20	1	40	60
5	WORKSHOP AREA	3 SQ.M	20	1	60	90
6	MODEL ROOM	3 SQ.M	20	1	60	90
7	SUBMISSION ROOM	2 SQ.M	20	1	30	30
8	EXHIBITION AREA (ENCLOSED AND SEMI OPEN)	2 SQ.M	20	1	90	90
9	TOILETS AND STORAGE SPACE				ADEQUATE	
TOTAL						690

ANIMATION AND VFX DESIGN

TOTAL INTAKE -20		TOTAL STRENGTH- 80			TEACHING STAFF- 8NOS.	
SR NO.	SPACES	AREA/PERSON	NO. OF STUDENTS OR STAFF	NO.	INDIVIDUAL AREA (SQ.M.)	TOTAL (SQ.M.)
1	HOD ROOM (WITH ATT. TOI.)	3 SQ.M	1	1	30	30
2	STAFF ROOM / PANTRY	6 SQ.M	7	1	60	60
3	STUDIO	3 SQ.M	20	4	60	240
4	VFX STUDIO		20	1	90	90
5	ANIMATON LAB	3 SQ.M	20	1	90	90
6	AV & RESOURCE ROOM	3 SQ.M	20	1	60	60
7	SOUND AND RECORDING STUDIO	5 SQ.M	20	1	90	90
8	PHOTOGRAPHY LAB					
9	SUBMISSION ROOM	2 SQ.M	20	1	30	30
10	EXHIBITION AREA (ENCLOSED AND SEMI OPEN)	2 SQ.M	20	1	90	90
11	TOILETS AND STORAGE SPACE				ADEQUATE	
TOTAL						780

INDUSTRIAL AND PRODUCT DESIGN

TOTAL INTAKE -20		TOTAL STRENGTH- 80			TEACHING STAFF- 8NOS.	
SR NO.	SPACES	AREA/PERSON	NO. OF STUDENTS OR STAFF	NO.	INDIVIDUAL AREA (SQ.M.)	TOTAL (SQ.M.)
1	HOD ROOM (WITH ATT. TOI.)	3 SQ.M	1	1	30	30
2	STAFF ROOM / PANTRY	6 SQ.M	7	1	60	60
3	STUDIO	3 SQ.M	20	4	60	240
4	WORKSHOP AREA	3 SQ.M	20	1	60	60
5	MATERIAL AND SAMPLE LAB	3 SQ.M	20	1	90	90
6	METAL AND CERAMICS LAB	3 SQ.M	20	1	90	90
7	SUBMISSION ROOM	2 SQ.M	20	1	30	30
8	EXHIBITION AREA (ENCLOSED AND SEMI OPEN)	2 SQ.M	20	1	90	90
9	TOILETS AND STORAGE SPACE				ADEQUATE	
TOTAL						690



Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp: Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Design portfolio requirements

1. Site analysis, case studies, and concept development
2. Site Plan showing roof plan and site sections (Scale = 1:500)
3. Site Plan showing ground floor plan (Scale = 1:500)
4. All floor plans with furniture layout and structural details (Scale: 1:200)
5. All elevations (Scale: 1:200)
6. Building sections showing critical details (Scale: 1:200)
7. Views, detailed site model and block model.

Note:

1. The assessment will be more oriented towards the design process followed by the student rather than the final product.
2. However, an emphasis will be put on preparing a complete set of presentation drawings including plan, Section and elevation adopting graphical techniques such as perspective, axonometric views etc. and a model thereby improving overall skill set.
3. All reviews carry marks

H.K. Pankshé

(Harshada Pankshé)

(Neha Pradhan)

Pradhan

Shrutejari
(Ar. Tejaswini H.M.)

Bhavika

(Ar. BHAVIKA JAIN)



DURATION: JUNE 2022 – SEPTEMBER 2022

TOPIC: SPORTS COMPLEX

Prof. Kamakshi Vaidya, Prof. Vinita Deshmukh, Prof. Suhas Deshmukh, Prof. Anil Nandedkar, Prof. Tejaswini H.M., Prof. Priyanka Sinha, Prof. Varsha Annadate, Prof. Harshada Ponkshe, Prof. Justin Thomas,

Introduction:

India has a great tradition of sports. Playing sports regularly keeps us healthy, disciplined and helps us in developing and improving mental health & confidence levels. There are many sports lovers in India who play and practice just for the love of sports and wish to develop sports as their career and play for nation. Their dream is unfulfilled due to inadequate infrastructure in sports and its accessibility. Hence, there is a need of a proper sports facility which provides appropriate training, coaching and arrangements for tournaments. In addition, much like education, politics, Sports is one of the most social activity in the world by bringing people from all over the world together during tournaments. Thus, the proposed sports complex would cater to the needs of the sportsperson, help hunt for new talent in sports & nurture them and provide suitable infrastructure and facilities for social activity.

Aim:

To design a World class Sports Complex with required amenities both Indoor & outdoor offering safe place to enjoy sports, encourage sporting activities promoting active and healthy life and provide the users with highest levels of experience.

Objective:

The design objectives of the studio are as:

- Familiarization of the students with the programme formulation, project methodology and design inputs for multiple activity projects thereby establishing a programme from both primary and secondary sources.
- Application of learnings from the subjects of Building Services, Structures, Bye-Laws, Environmental Studies, etc. in particular as significant aspects of architectural design.
- Incorporation of site analysis and context as an effective design determinant.
- Addressing and exploring specific project requirements (Complete Sports complex with accommodation facility for players) – Indoor & Outdoor sports, nature of indoor and outdoor spaces/activities, etc.
- To design a building that is in close connection with the surroundings.

The Program:

The sports complex will cater to the population of all the age groups, gender, culture and status. The programme therefore should be suitable to all the individual and groups. The programme will include the following sports which can be addressed by students as per the context.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

1. **Swimming pool** with all its ancillary facilities as changing rooms, showers, toilets, lockers etc. for nearly 100 persons at peak period.

2. **Indoor games** with all its ancillary facilities like lobbies, changing rooms, toilets, spectator areas etc.

- a. Squash room
- b. Billiards tables
- c. Snooker/Pool tables
- d. Table Tennis
- e. Badminton court
- f. Rifle shooting range
- g. Kabaddi
- h. Boxing
- i. Wrestling
- j. Gymnastics
- k. Board game room equivalent to multipurpose space of 80-100 persons gathering.

3. **Outdoor games** with amenities needed:

- a. Lawn Tennis
- b. Net cricket pitches.
- c. Basketball court
- d. Volleyball court

4. **Children activity lounge** for approx. 25-30 children.

5. **Gymnasium** with changing rooms/toilets

6. **Spa** with Sauna, Steam and Massage areas along with other ancillary facilities: Sauna, Steam, Massage

7. **Library** for 5000 volumes of books, magazines, newspapers all-inclusive and 25 persons seating.

8. **Hobby room or multipurpose room** for small group activities (Keyboard, Guitar, Story Telling)

9. **Restaurant** with central kitchen.

10. **Cafe**

11. **Juice bar**

12. **Accommodation:**

- Guest rooms – double occupancy
- Guest dormitories with ancillary areas

13. **Administrative areas** as required.

14. **Sports Shop**

15. **Exhibition area**

16. **Parking facility** as per norms.

17. **Landscape areas** for gardens and other outdoor activities.

Note: 1. Student can add one traditional or any other sport facility.

2. Students are required to work out details for activity and ancillary areas as per the standards and from case studies.

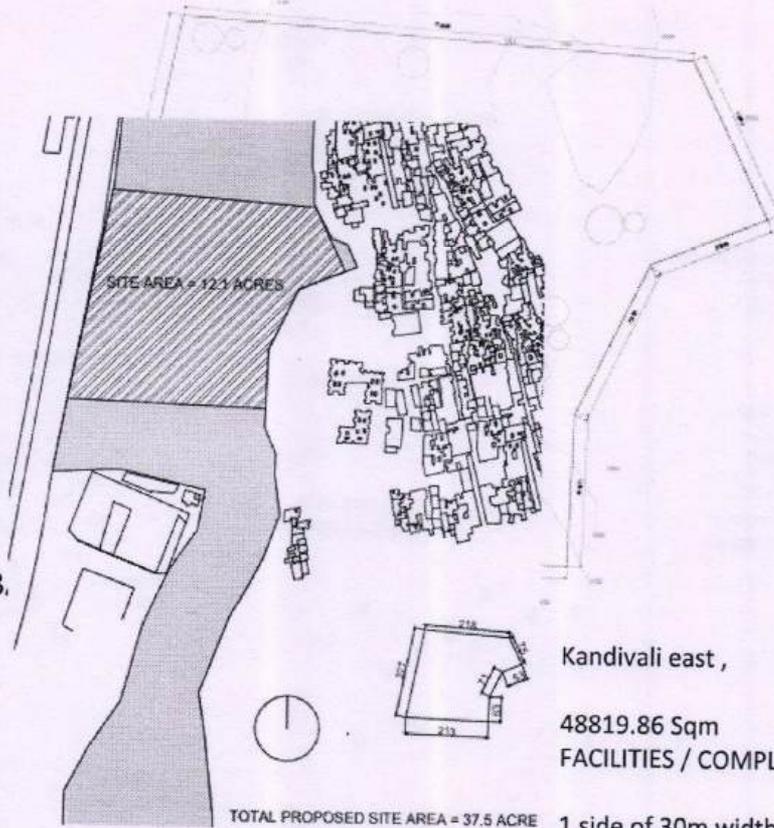
3. Design of accommodation facility was not mandatory.

Site:

Each division has one or more than one sites. Div-A - two sites, Div-B – one site, Div-C – three sites. In all there were six sites admeasuring approx. 10-14 acres in area.

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

DIV. A



SITE 1: KANDIVALI, MUMB.

LOCATION: Shiv Sagar
Mumbai

SITE AREA: 12.1 Acres /

Development Plan: SPORTS
/ STADIUM / SPORTS CENTRE

Site surrounded by road from
Dense foliage around site

On **north side**, Samta nagar Police station

On **east side**, Residential Development

On **south side**, Time of India Suburban Press

On **west side**, Akroli Metro Station

Kandivali east ,

48819.86 Sqm
FACILITIES / COMPLEX

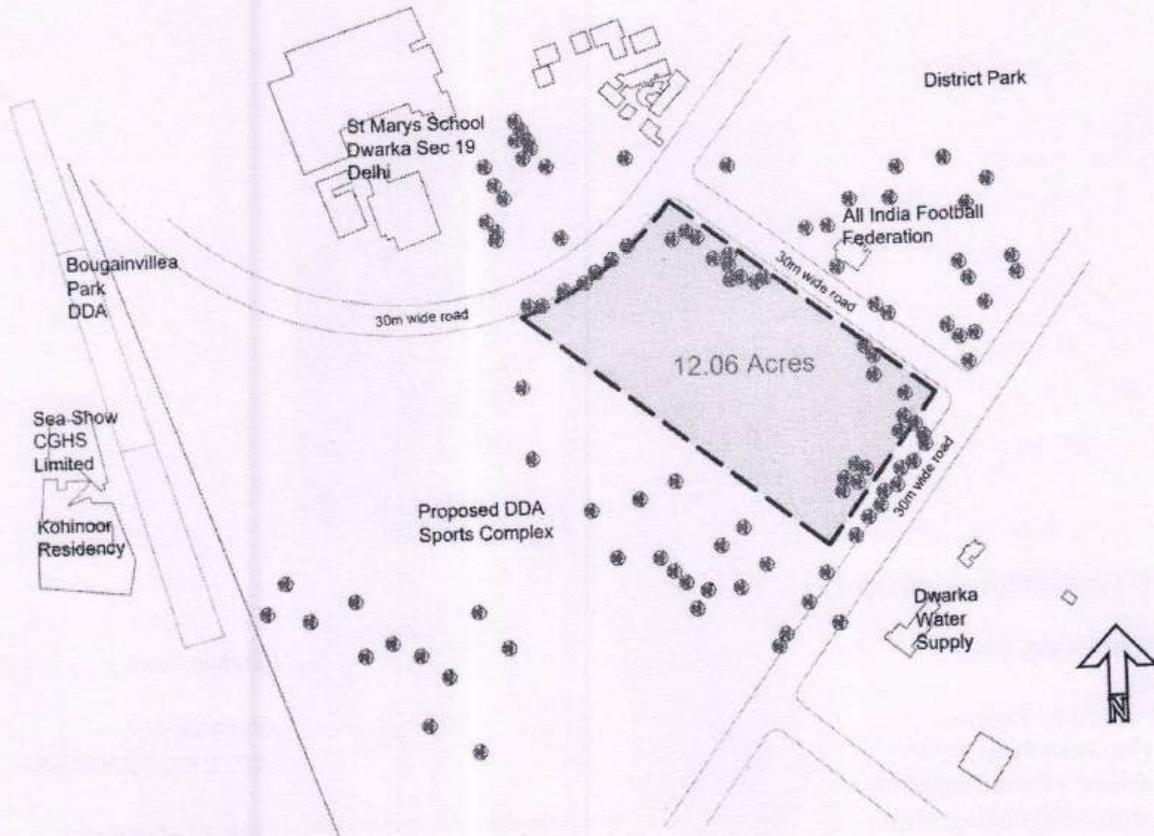
1 side of 30m width.

Site 2 : DWARKA, DELHI



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

LOCATION:



LOCATION: Sector 19 B, Dwarka Delhi

SITE AREA: 12.06 Acres / 48819.86 Sqm

Development Plan: SPORTS FACILITIES / COMPLEX / STADIUM / SPORTS CENTRE

Site surrounded by road from 3 sides of 30m width.

No road on west side.

Site is rich in vegetation as well as context.

On **north side**, there's St Marys School Dwarka.

On **north-east side**, there's a AIFF District Park & ITC hotels at 1.6 km distance.

On **southeast side**, there's a Dwarka water supply and Bharat Vandana Park.

On **north side**, there's a school, commercial complexes, and **Indira Gandhi International Airport** at 3 km.

On **west side**, there are residential apartments and a Bougainvillea Park DDA.

DIV. B & C

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



KHARGHAR SITE: This site in Kharghar is located along the majestic Kharghar hills, near the Shilp Valley project at Plot no 11 of Sector 36. As per the requirement, 13 acres of site was identified with adjoining roads as shown, belongs to CIDCO.

Kharghar is one of the most established nodes of Navi Mumbai which is being developed as Education Hub and now as business hub. Due to this there are many youth hostel and residential facilities in the vicinity for accommodation. Hence the design requirements includes only sports complex.

H.K. Ponkshe
(Harshada Ponkshe)

(Signature)
(PROF. ANIL NANDEDKAR)



(Signature)
Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

1.3.1

**Institution integrates cross- cutting issues relevant to
Gender, Environment and Sustainability, Human Values
and Professional Ethics into the Curriculum**

**D) List of topics in the Design Dissertation in B. Arch
Programme which addresses cross cutting issue**




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

Design Dissertation - Academic Year 2022 - 2023			
Sr. No.	Name of the Students	Design Dissertation Topic Title	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1	A G Lakshmi Ashok	Techno Park	Professional Ethics
2	Achrekar Shalmali Sanjay	Mental healthcare center	Human Values
3	Agarwal Abhishek Vinod	World trade center	Professional Ethics
4	Agrawat Deepika Shyamdas	Affordable housing	Professional Ethics
5	Amru Komal Jagannath	Resort Design, Mandu	Human Values, Environment and sustainability
6	Baikar Hrishikesh Unmesh	Wine hostility and hill resort	Environment and sustainability
7	Bane Harsh Mahesh	5 star hotel	Human Values
8	Banik Amitakshi Sumit	International convention and exhibition center	Professional Ethics
9	Barabde Shivani Prashant	Art hub	Human Values
10	Barapatre Atharva Sudarshan	Art interpretation and cultural center	Human Values
11	Barde Sanchit Suresh	Public library	Professional Ethics
12	Bhagat Omkar Vilas	Municipal corporation headquarters, Kalyan-Dombivli	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

13	Bhavar Priti Balasaheb	Drug rehabilitation and healing center	Human Values, Environment and sustainability
14	Bhilare Mrunmayee Prakash	Gurukul of Hindustani classical and western music	Human Values
15	Bhoi Nandakishor Madan	Agro small scale industry and tourist hub	Human Values, Environment and sustainability
16	Bhoir Ajinkya Bhushan	Habitat center	Professional Ethics
17	Bhoir Suyesh Ramesh	Institute of Ayurveda center	Environment and sustainability
18	Bidaye Arya Ajitkumar	Redevelopment of Kankavli College	Professional Ethics
19	Bodadkar Sayali Vilan	Regional transport office and traffic awareness center	Professional Ethics
20	Cardozo Ayumi Adelberth	Multi community crematorium	Human Values
21	Chandiwal Shubhanshu Nitin	Animation, Visual effects, gaming and comics (AVCG) center	Human Values
22	Channe Tejas Sanjay	5 star hotel, Navi Mumbai	Human Values
23	Chaugule Akshata Arjun	School according to new education policy 2020	Human Values
24	Chavan Vrushali Subhash	Disaster management center	Human Values
25	Choudhary Vinod Kanaram	E-sports and arena center	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

26	Dalvi Siddhi Sanjay	Multimodal transit hub	Human Values
27	Deshmukh Pruthviraj Ramchandra	Agro housing	Environment and sustainability
28	Dethe Prachi Dhananjay	Winery	Environment and sustainability
29	Gaikwad Dhanashree Bhanudas	Cultural hub	Human Values
30	Gauri Niranjan Shankar	Mythology museum and cultural center	Human Values
31	Ghag Tanmay Hemant	National museum of natural history, New Delhi	Environment and sustainability, Human Values
32	Gohel Khushabu Vinod	Psychonautical center, Nagpur	Human Values
33	Gokhale Shaunak Samir	Medical tourism center	Human Values
34	Harkawat Bhakti Devendra	International and domestic cruise terminal, Goa	Professional Ethics, Human Values
35	Hiwale Vineet Santosh	Adivasi School	Human Values, Environment and sustainability
36	Jadhav Kirti Ratilal	National Institute of Fashion Technology, Ranchi	Human Values
37	Jadhav Ritika Rajaram	Tourist hub	Human Values, Environment and sustainability
38	Jadhav Sonal Sanjay	Social development center	Environment and sustainability
39	Jagadhani Abhishek Anil	Spiritual rejuvenation center	Environment and sustainability
40	Jagdale Disha Satish	Apashinge- Pillar of	Professional Ethics,





Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

		Maharashtra-Service before self, Satara	Environment and sustainability
41	Jain Himanshu Prakash	School of art and architecture	Human Values, Professional Ethics
42	K. S. Abhijith	Oceanarium	Environment and sustainability
43	Kadam Radhika Shailesh	Reviving the traditional knowledge of Buddhist monasticism	Human Values, Environment and sustainability
44	Kadam Shubham Rajaram	Rehabilitation of under privileged children .	Environment and sustainability
45	Kanase Bhushan Prakash	IT Park	Professional Ethics
46	Karale Siddhesh Ajit	Social and economic empowerment centre for transgender community	Gender Equity
47	Kare Ajit Krishnakumar	Government medical college	Professional Ethics
48	Karekar Swanand Dattaram	Research and development center for EV	Professional Ethics, Environment and sustainability
49	Khadakban Tejashree Sujit	RangBhoomi- Theatre complex and film school	Human Values
50	Khade Bhupesh Yadav	NID	Professional Ethics
51	Khade Pranaya Pradeep	Kumbharwada - A Model For the Future	Human Values
52	Kharche Chinmayee Deepak	Film production facility unit in proposed film city, Noida	Human Values
53	Khare Garima Rajesh	Spiritual rejuvenation center	Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

54	Khare Simran Makarand	Innovate up- A hub of startup, Nagpur	Professional Ethics
55	Khot Amey Govind	Gaming headquarters	Human Values
56	Kolage Dhwanee Ajay	Recreational hub	Human Values
57	Kushwaha Aanchal Bharat	F1 circuit complex	Professional Ethics
58	Lad Himanshu Ramakant	Agricultural research center, Vidarbha	Environment and sustainability
59	Late Rupali Gangaram	Tourist interpretation center at Lonar	Human Values
60	Mahale Sahil Ajay	Eco-resort	Environment and sustainability
61	Mantri Mrudula Chandraprakash	Food hub	Human Values
62	Mhaisdhune Omkar Vasant	Armed forces resource center,	Professional Ethics
63	Mistry Deep Kirti	Center for excellence, Bengaluru	Professional Ethics
64	More Ruchita Rajiv	Contemporary art museum	Professional Ethics
65	Nagose Achyut Ashok	Redevelopment of textile market, Delhi	Professional Ethics
66	Navale Tejaswini Hiranman	International airport, Delhi	Human Values
67	Nawar Purva Ravindra	Urban entertainment center	Human Values
68	Nemade Pournima Kashinath	Intergenerational living community	Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

69	Noronha Sonia Melwin	Senior Living (Home for elderly),	Gender Equity, Human Values
70	Padwale Aditya Vishwas	School of photography,	Professional Ethics
71	Pamecha Rishabh Vinod	Business incubation center	Professional Ethics
72	Patel Mitravaran Shantilal	Floating neighborhood module	Human Values
73	Patil Aditi Jitendra	Rejuvenation center and resort for mind and body	Human Values
74	Patil Param Ramakant	NIFT	Professional Ethics
75	Patil Sanyukta Rajesh	Retreat center	Human Values
76	Patil Shruti Shashikant	Inclusive school,	Professional Ethics
77	Patil Sumit Jaypal	Dance academy and 5 star hotel	Professional Ethics
78	Patil Vedbhushan Suhas	Royal Indian Navy - Naval Heritage Museum	Professional Ethics
79	Patro Sahil M. Satya	Indian institute of management, Sambalpur	Professional Ethics
80	Pawar Priyanka Singh Ramprakash	Api Tourism and development center,	Environment and sustainability
81	Polekar Sanika Umesh	Mixed use development hub	Professional Ethics
82	Pooja P.Panigrahi	Film institute,	Human Values
83	Raikwad Ketki Vasant	Wellness resort	Human Values, Environment and sustainability
84	Rajput Amansingh Gulabsingh	Street children rehabilitation center	Gender Equity, Human Values
85	Ramani Parth Shantilal	Museum of tribal freedom fighters and culture,	Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

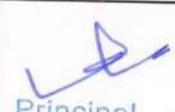
Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

86	Rao Jaswant Amarsingh	Heritage hotel, Ajmer	Human Values
87	Sahoo Shakti Prateek	Museum of urban history, Bhubaneswar	Human Values
88	Sahu Ankita Chandra	Shopping mall with office (Commercial hub),	Human Values
89	Salunkhe Ishwari Rajendra	Women empowerment center	Gender Equity
90	Sangle Aditya Bhushan	Resort and waterfront development	Human Values
91	Sawant Devam Deepak	Juvenile correction home	Human Values, Gender Equity
92	Sawji Prasad Dhanesh	Revamping Kalyan railway station	Human Values
93	Sayed Aadil Mushtaque	Inter-dimensional space zone,	Professional Ethics, Human Values
94	Sayed Sarah Ashfaq	Islamic Centre- Hajj and Cultural hub, Navi Mumbai	Human Values
95	Shaikh Muskan Zakir	Interpretation center at Hampi	Human Values
96	Shetty Esha Girish	Modern digital age school	Human Values
97	Shinde Aarti Ambadas	Retreat center for mental health patients	Human Values
98	Shinde Pranoti Bhagwant	Vedic Gurukul,	Human Values
99	Singara Jugal Nilesh	Hospice for cancer and AIDS patients	Human Values
100	Somani Radhika Rajesh	Business incubation center	Human Values
101	Sulebhavikar Dipesh Dattatray	Sports complex	Professional Ethics, Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

102	Suranje Pritesh Balkrishna	Eradicating second generation prostitution	Gender Equity
103	Tambe Shivani Ganesh	Public center, Jaipur	Human Values
104	Thakare Kunal Anil	Ayurvedic center	Human Values
105	Tirodkar Parmeshwari Pandharinath	Rhythm- Music experience center, Santacruz, Mumbai	Human Values
106	Udageri Jayant Shrishail	Seafront tourism and commercial hub	Human Values
107	Utekar Shreyas Ashok	Animal welfare center	Professional Ethics, Environment and sustainability
108	Varde Anisha Avinash	Habitat for enhancement of mental health and animal assisted therapy	Professional Ethics, Environment and sustainability
109	Vedpathak Devanshi Rajan	High speed rail terminus, Mumbai	Human Values
110	Vilekar Manasi Rajan	Bus terminal cum commercial complex	Human Values
111	Warrier Reshma Suresh	Cultural center for art forms, Kerala	Human Values
112	Yadav Nikhil Namdeo	Multimodal transport hub at Digha	Human Values
113	Zade Anushka Arun	NICE (Nagpur international convention and exhibition center)	Professional Ethics
114	Zore Pratik Ramchandra	5 star hotel, Navi Mumbai	Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID., P.G.DID., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

Design Dissertation - Academic Year 2021 - 2022			
Sr. No.	Name of the Students	Design Dissertation Topic Title	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1	Baazi Aditi Vijaykumar	Recognising The Strangers	Human Values
2	Bhole Mohit Kiran	Training Centre For Children With Special Needs	Human Values
3	Bhosale Avantika Sachitanand	Pragati Shala - School For Deaf, Dumb And Blind	Human Values
4	Bhosale Chaitali Rajendra	Journey Of Knowledge - Public Library	Professional Ethics
5	Chopra Akanksha	Agriculture - An Insightful Experience	Environment and sustainability
6	Dighe Siddhi Chetan	Holistic Healing Centre	Human Values
7	Gade Gayatri Mohan	Vipassana Meditation Centre	Human Values
8	Gaikwad Aman Vilas	Interstate Bus Terminal	Human Values
9	Ghumekar Sagarika Rajesh	The Roof Of Hope - Old Age Home	Human Values, Gender Equity
10	Ingale Nikita Dinkar	Agro Eco-Tourism Centre, Jalgaon	Environment and sustainability
11	Jadhav Abhishek Balasaheb	Football Academy And Training Centre	Professional Ethics
12	Joel Justna	Reintegration Of The Landless, Wayanad	Human Values
13	Joshi Jyotika Ashok	Arts And Crafts Centre	Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

14	Kadam Rajesh Sanjay	Adaptive Architecture To Dynamic Nature (Approach Towards Flood Resistant Housing - Case Of Sangli)	Environment and sustainability
15	Khadye Yash Ramesh	Count The Left Out: A Participatory Approach Towards Developing Business Opportunities For The Waste Picker Community Living In An Urban Area.	Human Values
16	Madas Aishwarya Rajendra	Waterfront Development	Human Values
17	Manjarekar Mitali Nitin	City Centre	Professional Ethics
18	Martin Cheryl	Eco - Tourist Hub	Environment and sustainability
19	Menezes Akash Savio	Children's Learning Forum On Life Skills And Individual Development.	Human Values, Gender Equity
20	More Pranoti Arvind	Revitalizing Konkan Tourism	Human Values
21	Mukund Kumar	Skill Development And Training Centre For Construction Workers	Human Values
22	Nagpure Bhumika Jayant	Urban Agritecture	Environment and sustainability
23	Naik Gauri Vishnu	Development Centre For Homeless Women	Human Values, Gender Equity
24	Nikita Raju Nikam	Orphanage - Improving The Livelihood Of Orphans	Human Values, Gender Equity
25	Parikh Dhruv Rajeev	Old Age Habitat	Human Values
26	Phadtare Aarti Krishnat	Agritourism	Environment and sustainability
27	Pooja Gurubakshani	Tourist Interpretation Center At Burhanpur	Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam

M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,

Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID., P.G.DID., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

28	Pranjali Mali	Rehabilitation Center For Disabled Ex-Serviceman	Human Values
29	Sanas Siddhi Suhas	Dr. Kashinath Ghanekar Performing Arts Center, Ratnagiri.	Professional Ethics
30	Sayali Mandhalkar	Knowledge Center (Library)	Professional Ethics
31	Shetty Mohit Suresh	Nature Interpretation Center	Environment and sustainability
32	Suyash Yashwant Khutale	Skill Development & Community Center For Koli Community In Mumbai	Human Values
33	Thoke Dhanashree Sambhaji	Pandemic Adoptive Habitat	Human Values
34	Thomas Grace Sara	Digital Media Center	Professional Ethics
35	Vaibhavi Madhusudan Dave	Digital Art & Entertainment Center	Professional Ethics, Human Values
36	Vinchhi Urvashi Bharat	De-Addiction Center	Human Values
37	Bagwe Madhura Dinesh	Multispeciality Hospital	Human Values
38	Bhatane Yashwanti	Multispeciality Hospital	Human Values
39	Boke Rashi	Holistic Rejuvenation Center	Human Values
40	Chiplunkar Sudhanshu Sudhakar	Redesign Koliwada	Human Values
41	Deekulla Anusha Rao Gopal Rao	A Covid Memorial	Professional Ethics
42	Devashree Gajare	Animal Shelter	Environment and sustainability
43	Devkate Vijay Anil	Affordable Housing	Human Values
44	Domb Chandrashekhar Sanjay	Eco- Resort	Environment and sustainability




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

45	Gaikar Mansi Kishor	Automobile Museum	Professional Ethics
46	Ishita Sharma	Co-Working Hub	Professional Ethics
47	Jadhav Raju Bhiku	Institute	Professional Ethics
48	Jadhav Vidisha Pramod	Sports Complex	Professional Ethics
49	Kadwadakar Sarvadnya Tushar	Biophilic Resort	Human Values
50	Khati Laxita Govind Singh	Disaster Management Institute	Professional Ethics
51	Malavika Muralidharan	Business Incubator	Professional Ethics
52	Marathe Bhumika Nandkumar	Khadi Center	Professional Ethics
53	Marathe Heramb Anant	Aero Astro Institute Of Spaces	Professional Ethics
54	Motagi Shubham Basavaraj	Sports City	Professional Ethics
55	Nagpure Nikhil Vasant	Gurukul	Professional Ethics
56	Nese Sakshi Sunil	Habitat Centre, Satara	Professional Ethics
57	Patankar Tejal Mandar	Interpretation Center	Human Values
58	Patil Juilee Rajendra	Rehabilitation Center	Human Values
59	Patil Vedangi Anil	Public Transport Hub At Alibag	Human Values
60	Pilankar Omkar Sanjay	Mix Use Cultural Center With Textile Hub	Human Values
61	Pise Pushpak	Beach Resort	Human Values
62	Pimpalkar Sakshi	Community Center, Mahad	Professional Ethics
63	Sanas Ashutosh	Bamboo Township, Aasam	Environment and sustainability




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth

COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

64	Sangli Pranali Pramod	Public Library	Professional Ethics
65	Sejal Mittal	Dance Village	Professional Ethics
66	Shetye Omkar	Redevelopment Of Slum	Human Values
67	Sulke Shweta	Agriculture Technology And Information Center	Environment and sustainability
68	Talwalkar Apoorva Deepak	Alzheimer's Care And Resource Facility	Human Values
69	Teradale Harshali	Spiritual Retreat	Professional Ethics
70	Thakur Nainesh Manoj	Art Institute	Professional Ethics
71	Thube Rushabh Sunil	Gaming And Animation Institute	Human Values
72	Vanage Saloni Swapnil	School	Professional Ethics
73	Varun Adewar	Gond Community	Human Values
74	Ughade Aparna	Facility For Iffi	Professional Ethics
75	Waghmode Sonali Sudhir	Agro Tourism	Environment and sustainability
76	Anushka Anand	Retreat For Mind - Spiritual Healing Center	Professional Ethics
77	Bodake Amit Hanmant	Indian Automotive Cultural Museum/ Experience Center	Human Values, Professional Ethics
78	Chalke Yash Rajesh	Interpretation Center For Maratha Empire/ Forts	Human Values, Professional Ethics
79	Chandan Tanvi Rajendra	Space For Content Creators- Studio	Professional Ethics
80	Chaubay Chandrakant Umakant	Rehabilitation Center For Drug Addict	Professional Ethics, Human Values
81	Dabhi Bhavika Ramesh	Animal Welfare Association Center	Environment and sustainability




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

82	Dhiraj G.Bhoir	Resort	Human Values
83	Dhuri Rutuja Shashikant	Old Age Home And Orphanage	Human Values
84	Dongare Pramod Adinath	Community Center At A Village	Human Values
85	Gajre Akshay Kailash	Film Institute	Professional Ethics
86	Ghanekar Rohit Chandrakant	Central Business District At Nagpur (Proposed)	Professional Ethics
87	Harne Antara Prashant	Old Age Retreat	Human Values
88	Jitesh Kumar Daswani	Orphanage And Rehabilitation Center	Human Values
89	Kharkar Saloni Pramod	Ocean Aquarium And Research Center, Miramar Beach Goa	Human Values
90	Mahadik Shambhavi	Redevelopment Of Nmm Society , Kalwa	Professional Ethics
91	Mahajan Aishwarya Milind	Rethinking Of Juvenile Rehabilitation Center	Professional Ethics
92	Mali Aarti Bharat	Youth Center Solapur	Human Values
93	Modhe Shubham Santosh	SRA	Human Values
94	Nagdive M. Manohar	Diwale Fishing Port	Professional Ethics, Human Values
95	Nazeeha Nazneen	Revitalizing Dhobi Ghat	Professional Ethics
96	Nikam Anuja Bipin	Retirement Village	Human Values
97	Onkar Jitendrakumar Jaju	Cultural Heritage And Interpretation Center Hampi	Human Values
98	Pise Manjusha Ishwar	Science Center And Planetarium, Amravati	Professional Ethics, Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

99	Roshan Banik	Exhibition And Convention Center At Tripura	Professional Ethics
100	Sakhare Shreya Shrirang	Rehabilitation Center For Differently Abled And Children	Human Values
101	Saware G. Nandkishor	Mihan Nagpur	Professional Ethics
102	Shahid Salim Shaikh	Lunar Habitation- Experience Centre	Professional Ethics
103	Shinde Harsh Dilip	War Museum	Professional Ethics
104	Shinde Piyush Baliram	Future Mega Hyperloop Transit Hub	Human Values
105	Tejaswini V. Shirdhonkar	Cultural Theme Park, Khalapur	Human Values
106	Thomas Merin Kaleekal	Wellness Retreat	Human Values
107	Vartak Rutu Rajendra	Re-Discovering The Communal Essence Of Hampi	Professional Ethics
108	Inamdar Arshiya	Formula One Circuit Complex	Professional Ethics
109	Iyer Vaishnavi	Synergy - Coworking Spaces	Professional Ethics
110	Ashodia Parth	Heritage Gymkhana	Human Values
111	Ashtavkar Siddhi	Sea Front Development- Mixed Use Of Land For Tourism-Oriented Uses- Goa	Human Values, Environment and sustainability




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

Design Dissertation - Academic Year 2020 - 2021			
Sr. No.	Name of the Students	Design Dissertation Topic Title	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1	Adep Sourabh Ishwar	Football Academy And Stadium At Ghansoli	Professional Ethics
2	Adsul Mansi Raju	Raga Anubhava (Indian Music Experience Center)	Human Values, Professional Ethics
3	Agarwal Dipti Suresh	Reimagining The Concept Of Mixed Use Development	Human Values
4	Agarwal Shivani Jagdish	National Museum Of Architecture , New Delhi	Professional Ethics
5	Bangar Parnavi Shrikant	Natural Science Department Of Kannada University	Professional Ethics
6	Bari Devyani Chandrakant	Skill And Empowerment Center For Transgender Community	Gender Equity
7	Bhagat Prachi Sunil	Flood Resilient Koliwada: A Adaptive Community Living In Coastal Locations	Human Values
8	Bhati Mujeeb Faiyaz	Hospitality And Urban Leisure	Human Values
9	Bhatkar Yagnika Vikas	Synergy Centre, Murud Janjira	Human Values
10	Bhoir Akshata Yashwant	Redevelopment Of Koliwada, Worli, Mumbai	Human Values
11	Bhoir Haridnya Hitesh	Reweaving Handloom Industry Of Paithan.	Professional Ethics, Human Values
12	Bhoir Malav Bhaskar	Performing Arts Center At Pune	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

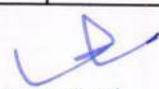
Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

13	Bhosale Aboli Umesh	Food Park, At Malvan, Sindhudurg.	Human values
14	Bhosale Mangesh Naresh	Interpretation Center, Raigad	Human Values
15	Chaudhari Aishwarya Rupkumar	Community Skill Center Based On Gandhian Ideologies.	Professional Ethics
16	Chaudhari Pooja Raju	Reintegration Center For Movement Disabled, Kerala	Professional Ethics
17	Chavan Aaditi Arun	Cinescape: Experiential Awareness Center	Professional Ethics, Human Values
18	Chavan Sanmesh Sanjay	Existential Sanctum: Revitalizing Crematorium Through Existential Phenomenology	Human Values
19	Chimote Aditi	Rejuvenation Center For Post-Traumatic Stress Disorder	Human values
20	Choudhary Dinesh Kaluram	Institute For The Visually Impaired At Auranagabad	Professional Ethics
21	Chovatiya Ritiksha Vijaybhai	Science Center At Baroda	Professional Ethics
22	Desale Amruta Ankush	Tribal Art And Cultural Center At Palghar	Human Values
23	Dhamapurkar Anagha Santosh	Drug Deaddiction And Rehabilitation Center	Human Values, Professional Ethics
24	Dhekle Rashi Anand	A Holistic Learning Institute For The Visually Impaired Children	Professional Ethics
25	Dhote Sakshi Bhushan	Cultural Interpretation Center, Puri	Human Values
26	Dhrangdhariya Ankit Paresh	Health Care Center For Rural Area.	Human Values
27	Divekar Aishwarya	Eco-Friendly Resort Wayanad	Environment and sustainability




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth

COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

	Sanjay		
28	Dumbre Mrudula Mahadev	Center For Architecture	Professional Ethics
29	Gaikwad Jayashree V.	Wellness Resort At Dapoli	Human Values
30	Gelani Ayushi Mahesh	Shaping Minds Through Humane Environment- District Jail	Professional Ethics
31	Ghadge Sayali Shashikant	Nirvana Parisar - Wellness Retreat And Nature Stay	Professional Ethics
32	Ghegade Shardul Ganesh	Skyfarm : The Urban Oasis	Environment and sustainability
33	Gupta Shikha Sujit	Animal Shelter And Crematorium	Human Values
34	Gupte Simran Anish	School-As An Inclusive Ecosystem Of Learning	Professional Ethics
35	Harne Kalyani Sunil	Development Center For Street Children , Mumbai	Human values
36	Hingu Nejul Kishor	Cultural Center For Sikh Community	Human Values
37	Iyer Hamisika Gopalkrishnan	Center For Disaster Management And Relief Shelters	Professional Ethics
38	Jadhav Manasi Umesh	"Varasaa " An Artist And Tourist Hub	Professional Ethics
39	Jadhav Priyanka Pratap	Police And Ats Training Academy, Satara, Maharashtra	Professional Ethics
40	Jadhav Shrushti Prabhakar	Red Carpet - Rehabilitation Centre For Children Of Sex Workers	Human Values, Gender Equity
41	Jain Pragya Fatehlal	Healing Centre At Kudal	Human Values
42	Jain Rimzim Sanjay	The Urban Forum Indore- Convention And Exhibition Center	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

43	Jain Sejal Rakesh	Weavers Community And Training Centre	Professional Ethics
44	Ankita Jiman	National Defence Academy - Induction Of Girl Cadets In Nda	Professional Ethics
45	Joel Cyril Mini	Institute Of Aviation Training At Jalgaon, Maharashtra	Professional Ethics
46	Jose Liya Jose M. B.	Waterfront Development - Bombay Bazaar	Human Values
47	Joshi Chaitanya Anant	Model Resilient Village For Paf Of Sardar Sarovar Project	Human Values
48	Joshi Sharvari Chandrashekhar	Public Library At Kharghar	Professional Ethics
49	Joshi Siddhant Ashok	Sangmarmar Vivechan - Interpretation Center For Artwork In Marble And Tourists Centre.	Human Values
50	Kadam Pranay Prashant	Reinventing Zoo	Professional Ethics
51	Kadam Shrusti Rajaram	Public Library	Professional Ethics
52	Kargutkar Tanvi Kishor	School Of Happiness- A Waldorf School In Gandhinagar, Gujrat	Professional Ethics
53	Kawale Tejasvi Digamber	Agrotourism Centre	Environment and sustainability
54	Khairnar Lekha Vishwas	Performing Arts Centre, Nashik	Professional Ethics
55	Kirtane Anushka Vinay	Agro-Tourism Resort	Environment and sustainability
56	Kisave Tejashri Jaydeep	Wellness Retreat Center	Professional Ethics, Human Values
57	Kotecha Varun Vinodkumar	Dhaga- The Chronicle Of The Banana Fibre	Professional Ethics



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

58	Kulkarni Pranjali Pandurang	Music Gurukul : Rejuvenation Of Classical Music	Professional Ethics
59	Lad Anuj Nandkumar	Post-Pandemic School	Professional Ethics
60	Lanjile Shrawan Rajesh	Sports Complex , Latur	Professional Ethics
61	Mahadik Dipika Shrikrishna	A Community Based Tourists Centre - Alibaug	Human Values
62	Mahajan Aditi Gopal	Redevelopment Of Vegetable Market Of Chalai, Trivandrum.	Environment and sustainability
63	Mahajan Ved Suhas	Revival Of Voids & Empowerment Of Gharapuri Island	Professional Ethics
64	Mali Sonal Yogendra	Astitva - Inclusive Academy	Professional Ethics
65	Manjrekar Sanjan Ranjan	Railway Terminal Building	Human Values
66	Mehrotra Saransh Sanjay	Gurukul	Human Values
67	Mhatre Dipti Raman	Urban Culinary Arts Experience Center At Bkc	Human Values
68	Mhatre Harshada Gopinath	Centre For Orphans And Single Mother	Human Values
69	Mhatre Nikhil Ganesh	Pilgrimage Center At Trimbakeshwar	Human Values
70	More Pratiksha Prakash	Rural Women Empowerment Center-Pune	Human values, Gender Equity
71	Nhalde Rohan Shekhar	The Pursuit Of Resilience Urbanism - Journey Between Land & Water , Mazgaon Dock	Professional Ethics
72	Pagar Vomkesh Sanjay	The House - Student Housing At Kharghar, Navi Mumbai	Human Values
73	Pakhare Karan Bhimrao	Experience Centre For Evolution	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth

COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

		Of Indian Music	
74	Panhale Kashmira Lalit	Divine Knowledge Center	Professional Ethics
75	Parab Manali Vilas	'unnati': Activity Centre For The Katkari Tribe	Professional Ethics
76	Patel Prerna Jeevan	Mechanical Maneuvers: Re-Interpreting Tourism X Industrial Development	Professional Ethics
77	Pathak Amey Vijay	Science City ,Kharghar	Professional Ethics
78	Patil Hemangi Sandesh	Ayurvedic Centre And Institute	Human values, Professional Ethics
79	Patil Kalpita Kailas	Interpretation Center For Textiles Of Maharashtra	Professional Ethics
80	Patil Omkar Shivaji	Aquarium	Professional Ethics
81	Patil Pruthviraj Jaywant	Sustainable School- For Rural Development	Professional Ethics
82	Patil Raswita Rajesh	Classical Dance Academy	Professional Ethics
83	Patil Siddhant Milind	Kaushal : The Development Centre For Juveniles.	Professional Ethics
84	Patil Tejas Raju	Home For Elderly And Children, N. Panvel	Human Values
85	Pawar Harshali Harishchandra	Daily Marketplace In Rural Area	Professional Ethics, Human values
86	Rajeshirke Chinmay Mahesh	Psychological Aspect Of Spirituality In Teenagers And Creation Of A Built Environment	Professional Ethics
87	Rane Sahil Sunil	Pavan - The Agro-Tech Centre	Environment and sustainability
88	Sandbhor Prasad	Urb-M(An)Di : A Terminal	Professional Ethics



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

	Dattaram	Market Of Perishable Products	
89	Sathe Vaishnavi Vasant	Utkarsh - Banjara Community Development Center At Poharadevi, Washim.	Professional Ethics
90	Sawant Abhishek Anand	Textile Training Centre At Malegaon	Professional Ethics
91	Sawant Tanmayi Deepak	Ecotourism Hub At Mochamad.	Environment and sustainability
92	Sethi Jaya Dawinder	Astronomy Interpretation Center , Lonar	Professional Ethics
93	Shah Pruthvi Nayan	Wellness Center At Madan Negi	Human Values
94	Sharma Shivani Shyam	Samagra- Art, Culture And Businesses Hub At Jodhpur	Professional Ethics
95	Shelke Pranjali Baburao	Agricultural Research And Information Centre.	Environment and sustainability
96	Shetty Kshitij Shashiraj	Strength In Secularity : Interpretation Center For Religion	Human Values
97	Shetye Vishakha Sharad	Tale Of Whales- Marine Mammal Interpretation Center	Professional Ethics
98	Shinde Sanika Sunil	Varal Yatra - A Center For Empowering And Exploring The Tribal Art And Culture.	Professional Ethics, Human Values
99	Shinde Saumya Mahesh	Bollywood Interactive Museum	Professional Ethics, Human Values
100	Shirke Janhavi Janardan	Resort At Jummapatti, Neral	Human Values
101	Shome Sanjana Nabakumar	Multifunctional Library, Pune	Professional Ethics
102	Singh Divisha	Muktidham- Unnayan, Community Integrated Development At	Professional Ethics



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

		Manikarnika Varanasi	
103	Suppaya Sayali Govind	Cancer Rehabilitation And Palliative Care Centre	Professional Ethics, Human Values
104	Surbhi Rajvardhan Ila	Art Conservatory	Professional Values
105	Surti Priyanka Mahendra	Victim Empowerment Center	Human Values, Gender Equity
106	Surve Surabhi Shashikant	वनोत्सव- Redefining The Approach Towards Socio Economic Development For Forest Dwellers In Shahapur	Environment and sustainability
107	Tayade Rohan Kishor	Agriculture Demonstration And Agrotourism Centre, Akola	Environment and sustainability
108	Tiwari Janhvi Santosh	Social Inclusion In Science: Biotechnology Park And Research Center In Naya Raipur	Professional Ethics
109	Upadhyay Richi Tushar	Zoroastrian Museum	Professional Ethics
110	Vadhavkar Smital Sanjeev	Revitalization Of The Craftsmen : Pune	Professional Ethics
111	Vasadwala Tasneem Hatim	Intermodal Transit Hub At Kashi	Human Values
112	Verma Ashwini Kumar Parimalkant	Construction Skill Training And Innovation Center, Nagpur	Professional Ethics
113	Wani Harish Dinesh	Facility Center For Tourists	Human Values
114	Zende Sonal Anil	School For The Coming Time	Professional Ethic




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

Design Dissertation - Academic Year 2019 - 2020			
Sr. No.	Name of the Students	Design Dissertation Topic Title	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1	Aher Shweta Chandrakant	Institute of fisheries science	Professional Ethics
2	Aras Devika Krishnachandra	Marine park and rescue centre	Human Values
3	Arjun Lakshmanan	Institute for gaming and animation design	Professional Ethics
4	Badekar Bhavana Arun		
5	Bhadra Krishna Kishor	Skill and trade centre for Rabari and Khatri community	Professional Ethics
6	Bhola Meenal Anil	Institute of liberal Art Education	Professional Ethics
7	Bhole Samidha Ratilal	Rejuvenating Filmcity	Professional Ethics
8	Chakraborty Aditi Alok	Film institute	Professional Ethics
9	Chaudhari Harshada Chandrashekhar	Sustainable Mandi at Panvel	Environment And Sustainability
10	Chaudhary Aditya Dwarka	Rethinking of BDD chawl, Sewri	Human Values
11	Chavan Darshan Haresh	Zoological park and rehabilitation centre	Environment And Sustainability
12	Chavan Dishani Dinesh	Art and craft centre	Human Values
13	Chouradia Kunjan Ajay	Skill development and craft revitalizing hub	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.D.I.D., P.G.D.I.D., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

14	Dalvi Shreya Santosh	Agricultural research institute and resource centre	Environment And Sustainability
15	Deshmukh Anurag Deepak	Skill Development centre and weavers museum	Professional Ethics
16	Deshmukh Siddhata Sanjay	National institute of fashion technology	Professional Ethics
17	Dhapare Pravarta Pradip	Research centre for waste plastic	Environment And Sustainability
18	Dixit Atharva	Environmental Lab, Nashik	Environment And Sustainability
19	Frederick Stanley	Kala mela	Human Values
20	Gawade Vinit	Sports complex	Professional Ethics
21	Gehani Dharna Ravi	Khadi weaving school, studio and sales	Professional Ethics
22	Gidh Swapnil Ganesh	Multi speciality hospital	Professional Ethics
23	Goradia Kashyap Vipul	Sports school for tribal youth	Professional Ethics
24	Gosavi Vishesh	Rejuvenating tribal village, Maharashtra	Human Values
25	Gupta Arjita Ajay	Mangrove restoration through ecological intervention	Environment And Sustainability
26	Gupta Simran Manoj	5 star hotel / resort	Professional Ethics
27	Haria Nikita Revant	Community centre for senior citizens	Human Values
28	Jadhav Prajesh Pratap	Tribunal	Professional Ethics
29	Jain Shwetank	Wholesale market - Jabalpur	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

30	Joshi Apeksha Subodh	Botanical research centre	Environment And Sustainability
31	Joshi Nidhi Rajendra	Cancer rehabilitation centre	Environment And Sustainability
32	Joshi Sairaj Shivaji	Academy of media and design	Professional Ethics
33	Joshi Tanvi Avadhoot	Beyond the mind, amidst the nature:Meditation centre- Quarry	Professional Ethics
34	Kabra Nishita Rajesh	Corporate hub for entrepreneurs	Professional Ethics
35	Kadam Akshata Eknath	Artist hamlet	Professional Ethics
36	Kadam Dhananjay	Youth Centre	Human Values
37	Kadam Rahul Uday	Fishing harbor, Deogad	Environment and Sustainability
38	Kadam Sohan Pradeep	Crematorium	Human Values
39	Kadwaikar Mayuresh Uday	Veterinary Hospital	Human Values
40	Karmi Rahul	Rethinking Worli Koliwada (Rethinking Urban Market)	Human Values
41	Kendki Shravani Meninath	Maritime museum	Human Values
42	Kharbe Nikita Prabhakar	Fine arts Institute	Professional Ethics
43	Khopkar Rutvij Mahesh	Intergenerational learning facility	Professional Ethics
44	Koli Vrushal Nilkanth	Institute of design	Professional Ethics
45	Kshirsagar Ajay	Sanghrashtra: Women Empowerment	Gender Equity




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

46	Kulkarni Kasturi Atmaram	Patriotic Museum	Human Values
47	Kuthe Sahil Devram	Music School Varanasi	Human Values
48	Likhite Sharvari Santosh	Zero power school	Environment and Sustainability
49	Mhatre Bhagyashree Nandkumar	Environmental education institute and research centre	Environment and Sustainability
50	Mhatre Snehal Dinkar	School of architecture	Professional Ethics
51	Mhatre Tanvi	Gaming Arena	Human Values
52	Mhatre Unmesh Raghunath	Pilgrim center at Bhimashankar	Human Values
53	Misal Nimisha Nitin	Stone technology center, Jaipur	Professional Ethics
54	Mohite Mrunalini Mahesh	Tourist hub, Kolhapur	Human Values
55	Mokal Mrunalini Anil	Holistic healing and health resort	Human Values
56	Mokal Samiksha Dnyaneshwar	Soil Museum	Human Values
57	Mokal Varsha Vikas	Rural hospital and trauma centre	Human Values
58	Morey Saptamy Narendrakumar	Sustainable tourism	Environment and Sustainability
59	Nagwekar Anshuli Uday	Multi Facility Center for Student	Human Values
60	Naik Gaurav Mohan	Food processing unit with tourist facility	Human Values
61	Naik Pooja Amarnath	Transit oriented development Khandeshwar	Human values
62	Nair Prarthana Rajkumar	Indian drapery centre, Tamil Nadu	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

63	Nanavare Pranav Prabhakar	Bus Depot, Kalyan	Human Values
64	Nandan Ronak Ravi	Architectural Museum, Ahmedabad	Human Values
65	Narkar Sonal Pramod	Hybrid market- urban agriculture	Environment and Sustainability
66	Navale Pradnya	Agro tourism centre	Environment and Sustainability
67	Nediyirippil Shruthi Venugopalan	Kodungalloor visitor's centre/recreational hub- Kerala	Human Values
68	Nilawar Manali Mahendra	Certificate "Learning From The Master"	Professional Ethics
69	Nivalkar Vaidehi V.	Neev- Home for destitute children	Human Values
70	Omale Janhavi Dilip	Redevelopment of Pimpri Chinchwad bus depot	Human Values
71	Padlekar Snehal	Beach resort- Hareshwar	Human Values
72	Palande Saili Ankush	Counter terrorism training institute (Resort)	Professional Ethics
73	Panchal Kunal Santosh	Skill development and redevelopment at Kumbharwada	Professional Ethics
74	Pande Harshali Rajendra	Designing of a model village- (Adarsh Gram) in Marathwada	Human Values
75	Patankar Yamini Deepaksing	Revival of Cultural Heritage of Fort, Pratapgad	Environment and Sustainability, Professional Ethics
76	Patil Aumkar Sanjay	Gurukul- Acquainted with modern needs	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

77	Patil Harshali Dnyaneshwar	Ayurveda treatment and research center	Professional Ethics
78	Patil Ravina Bharat	Hospice- Supporting spirit of life	Professional Ethics
79	Patil Saili	Engineering college	Professional Ethics
80	Patole Antariksh Ravi	Museum of ancient Water conservation technique of India	Professional Ethics
81	Phondekar Gargi	Cultural centre for South Indian performing arts	Professional Ethics
82	Pipaliya Sonu Jayendra	Textile museum and interpretation centre	Professional Ethics
83	Powar Rohan Raghunath	Ayurvedic hospital and research centre	Human Values
84	Pradhan Pranav Mahesh	War Museum	Professional Ethics
85	Rahate Adesh Raghunath	Food processing unit with tourist facility	Professional Ethics
86	Rathod Priyal Jayesh	Visual art and craft centre	Professional Ethics
87	Rokade Surabhi Suresh	National school of drama	Professional Ethics
88	Rungta Ishwar Arun	Cultural hub (heritage of North east)	Professional Ethics
89	Sadhani Nameeta Ashok	Reimagining a Koil's life	Human Values
90	Sagare Pranali Suresh	School of photography	Professional Ethics
91	Salian Tejas Sadip	Taal- Musical hub and museum	Human Values, Professional Ethics
92	Salunke Divya	Certificate Forest Research Institute	Environment and Sustainability




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

93	Sanas Kajol Ganesh	Community center for transgenders	Human Values, Gender Equity
94	Sangeeta Veeramani	Mangrove park at Ulwe	Human Values
95	Saple Chinmay Shivram	Tourist Hub & Wellness Center At Vengurla	Human Values
96	Shah Kinjal Vipul	Mixed use centre near Navi Mumbai airport	Human Values
97	Shaikh Sakib Nazir	Alternative school	Professional Ethics
98	Sharma Krishana Amar	Biophilic resort	Human Values
99	Shetty Srishti Suresh	Public library- Literarium	Professional Ethics
100	Shetty Suneha Chandrashekhar	Archeological museum and research institute	Professional Ethics
101	Shinde Sejal Dhananjay	Rural sports facility, Amravati (Reviving indigenous sports)	Professional Ethics
102	Shivarkar Namrata Sunil	Interpretation center, Pune	Professional Ethics
103	Singh Manmeet Paramjit	Transition Course Through Intermediates in a Multimodal Train	Human values
104	Sonawane Nilam Prakash	Unschooling school- Alternative school	Professional Ethics
105	Songire Srushti Sunil	Eco Resort	Environment and Sustainability
106	Sukhadeve Opal Vinayak	Youth Recreational club	Human Values
107	Suryavanshi Sayali Anant	Gram Vikas Kendra	Professional Ethics
108	Tembe Manasi Sanjay	Water sports and recreational	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

		facilities near a dam	
109	Variar Sandhya Nandkumar	Community art precinct, Kerala	Professional Ethics
110	Vengurlekar Shreya Santosh	Wine tavern and resort	Human Values
111	Wani Rachana	Sports Complex	Professional Ethics
112	Waphare Deepak Dadasaheb	Earth Institute	Professional Ethics
113	Ware Deepali	Adventure Resort	Human Values
114	Zagade Sarvesh Ashok	De Addiction center	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

Design Dissertation - Academic Year 2018 - 2019			
Sr. No.	Name of the Students	Design Dissertation Topic Title	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1	Acharekar Swarali	Exhibition Center	Professional Ethics
2	Amle Vaidehi	Tryst with the City: Waterfront Development	Human Values
3	Ayarkar Rasika	Culinary Art Institute	Professional Ethics
4	Bagul Aditi	National Museum for Dance and Theatre	Professional Ethics
5	Balwani Karan	Agriculture Training Centre	Environment and sustainability
6	Bambot Musavvir	Medical Tourism Centre	Human Values
7	Bangar Akanksha	Agro- tourism Resort	Environment and sustainability
8	Bangar Gauri	Convention Centre, Goa	Professional Ethics
9	Bapat Ketki	NMMC Sports Complex, Ghansoli	Professional Ethics
10	Bavdane Aman	Zoological Park	Professional Ethics
11	Baviskar Mayuri	SCHOOL	Professional Ethics
12	Bende Siddhant	Textile Museum at United Mill no.1	Professional Ethics
13	Beura Somik	Urban poor center	Professional Ethics
14	Bhalerao Hitesh	Filmmaking Academy	Professional Ethics
15	Bhoir Shubham	Marriage Destination Resort	Human Values
16	Bhusane Shrutika	Space for Strays and Humans	Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

17	Borate Sneha	Heritage Museum Titwala	Professional Ethics
18	Chavan Rohit	Ashram/Interpretation Center	Human values
19	Chavan Sanjana	School for visually Impaired	Professional Ethics
20	Chawda Dhawal	Centre for Peace	Professional Ethics
21	Chile Ashwini	Development Alternatives - Skill Development Centre, Konkan	Professional Ethics
22	Chitnis Arundhati	Cultural Hub	Human Values
23	Dabholkar Nikita	Youth Rehab Centre	Human Values
24	Dalvi Sayali	Multimodal development of Railway Station	Human Values
25	Damle Aasavari	Sports facility- Kinetic Architecture	Professional Ethics
26	Deshpande Renuka	Rethinking of rural school	Professional Ethics
27	Dhoble Sanika	Three Star Hotel	Human Values
28	Dhotre Ganesh	Healing center - Topic not clear	Human Values
29	Gangar Jinisha	Budget Hotel	Human Values
30	Gaur Aditi	Renewal Of Urban Crematorium	Human Values
31	Gawale Chaitali	Art village/ Shilpgram	Human Values
32	Gawand Saurabh	Sports Club	Professional Ethics
33	Girsawale Kalyani	Redevelopment of market at Chandrapur	Professional Ethics
34	Gosar Dhruvi	Community Learning Centre	Professional Ethics
35	Gudekar Mrunmayee	Health factory	Professional Ethics
36	Gupta Sonali	Temporary Accomodation for Magh Mela, Allahabad	professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

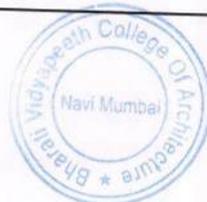
Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

37	Hariani Tamanna	Maritime Museum	Professional Ethics
38	Jadhav Sameer	Collaborative Office Campus	Professional Ethics
39	Jadhav Shubham	Institute for Photography	Professional Ethics
40	Jalan Ayushi	Mixed use development, Patna	Human Values
41	Jayalakshmi Nair	Public market	Professional Ethics
42	K. Varghese Selvin	Aromatic/ Fragrance and Flavours development Institute, Kannauj	Professional Ethics
43	Kadu Tushar	Uran Railway Station	Human Values
44	Kamulkar Prachiti	Water and Land Management Institute	Human Values
45	Khan Waseem	Skill Development Institute	Professional Ethics
46	Khatanhar Varun	Five star hotel and casino at Daman	Human values
47	Khatib Muhammed	Development of Belapur Fort Area as recreational space	Professional Ethics
48	Konda Samyuta	Paralympic Sport Facility	Professional Ethics
49	Koyande Manali	Fruit park	Professional Ethics
50	Kshirsagar Priyanka	Collaborative/ welfare center for Adivasis	Professional Ethics
51	Kumar Nishchay	Public Library	Professional Ethics
52	Kumar Reshma	Centre for Autism	Professional Ethics
53	Kumbhar Pallavi	Center for Performing arts	Professional Ethics
54	Latkar Aditi	Phenomenology Of Space- Juvenile Correction Home	Professional Ethics
55	Mahajan Mansi	Museum Aviation and Space	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

56	Maity Shreejita	Redevelopment of Kila Nizamut Campus	Human Values
57	Makarand Patil	Balsudhar Griha	Human Values
58	Mayekar Pooja	Revitalisation of Mirkarwada jetty	Professional Ethics
59	Meher Prajakta	Market redevelopment	Professional Ethics
60	Mehta Dhruvit	SAKSHAM: Reinventing a Migrant Narrative	Human Values
61	Mhatre Sahil	Beach Resort, Murud	Human Values
62	Mhatre Tanvi	NIFT, Haryana	Professional Ethics
63	Mokal Shrishti	Center for Performing Arts	Professional Ethics
64	Mungaji Himanshu	Resort at Kannur	Human Values
65	Muthulakshmi Uma	Redevelopment of Worli koliwada	Human Values
66	Nag Harsh	Centre for after school development-topic clarity needed	Human values
67	Narvankar Tanvi	Eastern Waterfront	Human Values
68	Nildhe Dhiraj	Institute for Sanitation	Professional Ethics, Environment and sustainability
69	Nirpute Sagar	Topo Village-Topic not clear - reworking asked	Human Values
70	Panchal Binal	Learners base	Professional Ethics
71	Panchal Disha	Healing architecture for institute-Topic not clear - reworking asked	Professional Ethics
72	Pastaria Nandit	Architecture College	Professional Ethics
73	Patel Abhishek	Institute for Natural Building	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale

(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M /

Date :

		Materials	
74	Patil Bhagyashree	Bus Terminus Vashi	Human Values
75	Patil Kajal	Decongestion-Uran Nala Bhaji Market	Human Values
76	Patil Ninad	Music School and Performance center	Professional Ethics
77	Patil Pallavi	Residential School	Professional Ethics
78	Patil Prathamesh	"AADHAR" Space for Divyang-training center	Professional Ethics
79	Patil Rasika	Food Park	Professional Ethics
80	Pawar Manali	Wellness Resort	Human Values
81	Pradhan Ishani	Tribal welfare	Human Values
82	Rane Om	Institute for Theatrical Arts/ Dramatics	Professional Ethics
83	Shah Krisha	Mahua Production Centre	Professional Ethics
84	Shah Rikunj	Lost spaces	Human Values
85	Shahsane Namrata	S.O.S Village for Children	Human Values
86	Shetty Hrishikesh	School for Autism/ children with special needs	Professional Ethics
87	Shimpi Priyanka	Community based heritage conservation	Professional Ethics
88	Shinde Amit	Revitalizing Pen Village	Human Values
89	Shinde Komal	Tourist Hub, Lonar	Human Values
90	Singh Alakh	Orphanage	Human Values
91	Solanki Ajit	Multimodal Transport Hub/ Bus	Human Values




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

		Depot	
92	Talati Dhvani	Gurukul	Professional Ethics
93	Taywade Shruti	Panvel Bus Depot	Human Values
94	Thakare Aarti	Recreation center Ghansoli	Professional Ethics
95	Thakare Girish	Agriecture, North Mumbai	Environment and sustainability
96	Thorve Swarali	Public Library	Professional Ethics
97	Tike Nandan	Collaborative Workspace studio & startup hub	Professional Ethics
98	Tirumala Ajay	Animal Shelter	Professional Ethics
99	Tribhuvan Preshita	Gangotri Cow conservation and development Center	Environment and sustainability
100	Ture Shruti	Daycare Centre and Preschool	Human Values
101	Vaidya Tejas	Rural school and community center	Human values
102	Vengurlekar Aishwarya	Sawantwadi Train Terminal	Human Values
103	Vijay Muskan	Urban Public Space	Human Values
104	Wajpe Ayushi	Marine Beach Resort	Human Values
105	Wani Snehal	Ayurveda and Naturopathy Institute and Curing Centre	Human Values, Environment and sustainability




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Phones : 022 - 27571451, 27564646
E-mail : principalbvcoanm@gmail.com,
principal.bvcoanm@bharativedyapeeth.edu



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder:

Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.D.D., P.G.D.D., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

1.3.1

**Institution integrates cross- cutting issues relevant to
Gender, Environment and Sustainability, Human Values
and Professional Ethics into the Curriculum**

**E) List of Seminars, Workshops and Value added Courses
which addresses cross cutting issues**




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

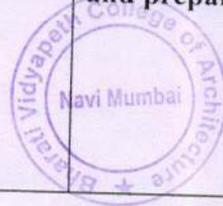
Principal
Prof. Satish Dhale
(G.D.D.D., P.G.D.D., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

Seminars and Workshops - Academic Year 2022 - 2023

Sr. No.	Topic of Seminar and Workshop	Date	Objective	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1.	Women's Mental Health Guest Lecture By- Dr. Mridula Apte.	10/08/2022	The seminar focused on women's life with various adjustments, personalities, developmental, neuro-cognitive, neurotic & psychotic disorders as well as people facing marital or family, academic, behavioral & emotional issues.	Gender Equity
2.	Net Zero Glazing Design Strategies for sustainable and green buildings Guest Lecture by- Mr. Shailesh Ranjan, Ms. Anuja Ratnakar Pawar	22/09/2022	An insightful masterclass on 'Net zero glazing design strategy for sustainable design and green building' organized by AIS (Asahi India Glass Ltd.)	Environment and Sustainability
3.	Profession and innovation- Internship in the field of Architecture Lecture By- Ar. Sangam	23/09/2022	The seminar was focused on the professional behavior of a person and preparation process.	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

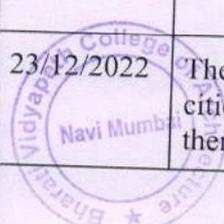
Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.D.I.D., P.G.D.I.D., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

	Namwad Ar. Nikhil Badrike			
4.	NISP awareness program on policy and objectives Lecture by- Ar. Sanskruti Rajhans	27/09/2022	The seminar was on NISP Awareness Program on Policy and Objectives organized by Institution Innovation Council and National Innovation and Startup Policy in which students had expert talks with the BVCOA professors.	Human Values
5.	Awareness program - Sexual Harassment of Women Guest Lecture By- Prof. Dr. Sudarshan G. Ranpise	28/09/2022	This program was a small step to educate everyone, listen and support women in their concerns.	Gender Equity
	Webinar on Entrepreneurship for Architects Guest Lecture by- Ar. Sankash Narvekar	15/10/2022	The webinar based on to Enabling entrepreneurship which could provide architects with the ability and skills to identify needs and opportunities in society	Professional Ethics
6.	Connecting with creative industry Guest Lecture By- Ella Davis, Miranda Higgins, Karen Heard	05/12/2022	The seminar was mainly focused on the awareness of professional practices in the architectural industry.	Professional Ethics
7.	Sustainable Urban Development	23/12/2022	The seminar focused on the study of cities and the practices to build them, with promoting their	Environment & Sustainability



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

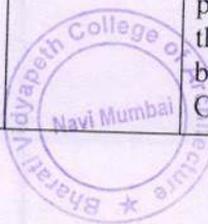
Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

	Guest Lecture By- Ar. Kshitija Pendharker		long-term viability by reducing consumption, waste and harmful impacts on people and place while enhancing the overall well-being of both people and place.	
8.	Entrepreneurship in artwork: A field visit day Workshop Conducted at- Aakar pot art, Indapur, Mangaon.	29/12/2022	BVCOA has stepped out for a field visit to understand nature friendly artwork . This workshop was arranged for the first-year students, on Entrepreneurship in Art: A field visit day.	Professional Ethics
9.	Seminar On IGBC Guest speaker: - Mr. Bhavesh Mehta, Dr. Mala Singh, Ar. Saharsha Naik	04/01/2023	The seminar covered a wide range of subjects including a talk on student chapter activities, IGBC and recent development followed by modern architecture and built environment.	Environment & Sustainability
10.	Art of Living from clutter to clarity Guest Lecture By- Sourav Ghosh	05/01/2023		Human Values
11.	Mandala Art & Pouring Art Workshop Workshop Conducted By- Ar. Sanskruti Rajhans	11/01/2023	13th January 2023 marks the birthday of Dr. Vishwajeet Kadam and it was celebrated by students by engaging in Mandala art and pouring art. BVCOA has organized this workshop which was conducted by Prof. Sanskruti Rajhans (NIPS Coordinator Innovation	Human Values Professional Ethics



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D., Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

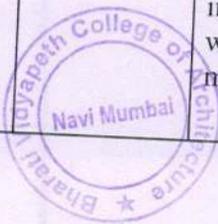
Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.Did, P.G.Did, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

			ambassador).	
12.	Entrepreneurship skills, attitude and behavior development Guest Lecture By- Ms. Sakshi Jadhav	16/01/2023	Students had expert talk with the speaker on smart skills and behavior in today's world.	Human Values Professional Ethics
13.	Design Thinking Guest Lecture by- Ar. Santosh Satpathy	20/02/2023	The seminar covered a wide range of topics related to the design process and its presentation.	Professional Ethics Human values
14.	Set Designing Guest Lecture by- Ar. Suniti Joshi	21/02/2023	The seminar had a wide range of discussions on creativity and scope in set design.	Professional Ethics Human values
15.	Construction Details Guest Lecture by- Amitesh Prabhu	21/02/2023	The seminar was full of knowledge about technical drawings and advanced details related to Construction. Also, the topic of site experience and visits were discussed.	Professional Ethics
16.	Interior Sustainable Material Lecture By- Ar. Ruta Pawar	22/02/2023	The discussion was all about understanding how interior space can be designed with sustainable material.	Environment and Sustainability
17.	Communication Skills Lecture by- Ar. Kamakshi Vaidya	23/02/2023	This seminar had discussion on communication skills which include Conveying messages without misinterpretation or misleading others.	Professional Ethics



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B. Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.D.I.D., P.G.D.I.D., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

18.	Green Interior Standards Guest lecture By - Mr. Bhavesh Mehta	24/02/2023	Students understood how interior spaces can be designed as sustainable design. But there are some standards which should be considered while designing. BVCOA had organized an insightful seminar where students had expert talk on 'Green Interior standards'	Environment and Sustainability Professional Ethics
19.	National Science Day - Environmental Science Guest lecture By - Ar. Gaurang Lele	28/02/2023	The seminar was about understanding of the Climatic conditions and their various strategies. It was the most informative session for the dissertation students as HVAC and other technical environmental topics were discussed.	Environment and Sustainability
20.	International Women's Day - A sneak peek into the world of research & scientific Publication Guest Lecture By- Dr. C S Ramaa	08/03/2023	The seminar organized detailed discussions on how to write research papers and publications.	Professional ethics
21.	International Women's Day - Women's Self Defence Workshop Taekwondo Workshop Conducted by- Mr. Rohit Sinhalkar	08/03/2023	The workshop is organized for self-prevention which can rely on applying the most effective weapon to the most vulnerable part. Also awareness of using our mind to enhance your reactions to situations that may seem out of your control.	Gender Equity



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :

Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal

Prof. Satish Dhale
(G.D.D.D., P.G.D.D., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M/

Date :

22.	Time Management Lecture By- Prof. Satish Dhale	16/03/2023	The seminar was focused on the importance of time management .	Professional Ethics
23.	Inherent Knowledge of Elevators and Escalators Guest Lecture By- Mr. Kunal Mandalik	24/03/2023	Seminar mainly covered all technical terms and details of elevators and escalators.	Professional Ethics



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.D.I.D., P.G.D.I.D., IIA, M.Sc.I.D., M.Arch)

Ref. No. : BV/COA/N.M./

Date :

Seminars and Workshops - Academic Year 2021 - 2022

Sr. No.	Topic of Seminar and Workshop	Date	Objective	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1.	Designing a 5-star hotel Guest Lecture by- Ar. Gurudatt Dabholkar	08/07/2021	A lecture for the final year students to understand the planning procedure and the services for the 5 star hotel with the case example of Sahara hotel, Mumbai.	Professional Ethics
2.	Women cell Seminar Guest Lecture by- Adv. Kranti Rothe	01/12/2021	The event was all about the discussion on the legal rights to safety and other important laws in today's world.	Gender Equity
3.	World Water Day Guest Lecture By- Dr Roshni Yehuda, Dr. Adv. Sadhana Mahashabde, Mr. Ramiel Soumiel	24/03/2022	A seminar was conducted on Groundwater - Making the Invisible Visible, Ground water resources and regulations in Maharashtra	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

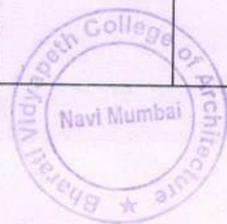
Principal
Prof. Satish Dhale
(G.D.D.D., P.G.D.D., IIA, M.Sc.ID, M.Arch)

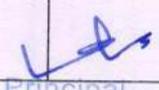
Ref. No. : BV / COA / N.M. /

Date :

Seminars and Workshops - Academic Year 2020 - 2021

Sr. No.	Topic of Seminar and Workshop	Date	Objective	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1.	World Environment Day Guest Speaker: - Hiten Sethi, Kedarnath Ghorpade, Anupama Karanam, Shwetal Kanwalu, Rishi Agrawal,	08/06/2020	The post pandemic situation today rings many warning bells for mankind and our survival on earth. In such cases there were some questions whether our lives are going to change post pandemic or not? For such questions we had initiated a dialogue which was named "URBAN DIALOGUES".	Environment and Sustainability
2.	World Architecture Day Guest Lecture by- Ar. Anupama Karnam, Ar. Purva Keskar Ar. Rajeev Kulkarni	09/10/2020	The discussion was based on practical experience in the field of Valuation.	Professional Ethics
3.	Understanding urban planning regulations and techniques Guest Lecture by- Ar. Abdul Nassir		The understanding of Urban Design Related regulation and techniques.	Professional Ethics




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.D.D., P.G.D.D., IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

Seminars and Workshops - Academic Year 2019 - 2020

Sr. No.	Topic of Seminar and Workshop	Date	Objective	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
	Pre Design Workshop Guest Lecture By- Ar. Mandar Dhuri	13/06/2019 & 14/06/2019	The workshop for the final year student for working on their thesis design strategies .	Professional Ethics
1.	Alumni Talks Guest Lecture by- Vidit Soni	31/07/2019	The talk on his experience and process of application to foreign universities for masters program.	Professional Ethics
2.	Concept of valuation Guest Lecture by- Ar. Ravindra Deshpande	30/08/2019	In the seminar the concepts of the valuation were introduced with its process, challenges faced and the exams and qualifications needed to be a valuer.	Professional Ethics
3.	Eco-Friendly Ganesha - A Clay Workshop conducted By- Rotaract Club	30/08/2019	A clay workshop with the participation of creative and talented students and with the guidance of rotaract of Navi Mumbai	Human Values
4.	Typology Workshop	17/09/2019	Typology is the classification according to general type. it's a way	Human Values



Principal

Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

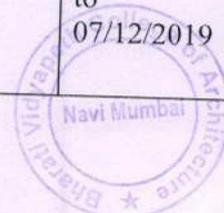
Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M /

Date :

	Conducted By- Ms. Lynda Doyle		of making an arrangement look more organized and appealing to the eye.	
5.	Book launching ceremony Lecture by - Ar. Suha Riyaz Khopalkar	23/09/2019	Just Give Me Some SPACE is a book jam-packed with light-hearted anecdotes and playful illustrations based on the life of an architect student.	Human Values
6..	The Gandhi Yatra Solar Lamp Workshop Conducted By- Associate for GGSY planned by IIT Mumbai	02/10/2019	The Gandhi Global Solar Yatra workshop is planned to promote self-sufficiency in energy for sustainability by making solar lamps.	Environment and Sustainability
	Building a sustainable Building and the AIS group on the types of glass Guest Lecture By- Ar. Hiten Sethi	23/11/2019	In this seminar, architects shared his experience as an practicing arching in the field of sustainable building with types of glass , its use in different forms.	Environment and Sustainability, Professional Ethics
7.	Design Week - Leewardist Workshop Conducted by- Ar. Anuj Kale	02/12/2019 to 07/12/2019	To understand the local community and write narratives with sketching.	Human Values
8.	Design Week - Design Jatra Workshop	02/12/2019 to 07/12/2019	It is young eco-sensitive architectural practice working towards community centric development.	Human Values 



Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

	Conducted by- Design Jatra			
9.	Design Week - Origami Workshop Workshop Conducted by- Bobbie Vijaykar	02/12/2019 to 07/12/2019	The Ar. Bobbie Vijaykar is an origami enthusiast, his first acquaintance came when he learnt about usage of japanese art to form design and structural elements that could be used to develop smart yet breathtaking structures.	Professional Ethics
10.	Design Week - Ceramics Workshop Workshop Conducted by- Tejashree Sagwekar	02/12/2019 to 07/12/2019	Exploration in the field of art through Ceramics workshop.	Professional Ethics
11.	Design Week - UN[PLAN] Workshop Workshop Conducted by- Ar. Dishant Bhatia	02/12/2019 to 07/12/2019	High-rise structure understanding- Housing	Professional Ethics, Environment and Sustainability
12.	Design Week - Upcycling Workshop Workshop Conducted by- Prof. Ruta Pawar prof. Trupti Kamat	02/12/2019 to 07/12/2019	Best out of Waste practice.	Environment and Sustainability
13	Design Week - Photography	02/12/2019 to	To understand the fundamentals of photography with respect to	Professional Ethics, Human



(Handwritten signature)
 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

	Workshop Workshop Conducted by- Prof. Anshul Rai Prof. Kirti Lonekar	07/12/2019	various themes. It is important to understand how human eyes perceive built space & Human Behaviour.	Values
14.	Design Week - Local narratives Workshop Conducted by- Prof. Pritam Dey Prof. Shomika Sarkar	02/12/2019 to 07/12/2019	To understand the local issues and corners and aspirations of the communities in a particular neighborhood.	Human Values
16.	Mosaic 2020- Human Centric Design Guest lecture by- Ar. Belinda Tato, Madrid Ar. Rahul Gore, Opolis Ar. Palinda Kannangara, Sri Lanka Ar. Severine Roussel and Ar. Philippe Zourgane, Paris Ar. Amritha Ballal, India Ar. Satyajeet	10/01/2020	The core aim of Mosaic is Human Centric approach to design to address critical issues and fundamentals through a tangible outcome for achieving aspiration of humans. A Mosaic of varied practices in Architecture, that evaluates the settings through a thorough understanding of project conceptualization, creation, execution and projection from the users perspective.	Human Values, Professional Ethics




Principal

Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A.L.L.B. Ph.D

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M /

Date :

	Patwardhan, Ar. Pashmin Shah, India Ar. Nimesh Shetty, India Ar. Rajesh Advani, India Reesham Shahab Tirtho, India Ar. Anuj Kale, India			
17.	Industrial Heritage of India Webinar conducted by- Prof. Ajinkya Vekhande Prof. Astha Khare, Prof. Madhura Naik	11/05/2020 to 27/05/2020	To understand the values of heritage sites and ultimately the need to protect them.	Professional ethics
19.	Habitation Webinar Conducted by- Prof. Nikhil Shah, Prof. Pritam Dey	07/05/2020 to 27/05/2020	The workshop was to entail understanding the strategic vision in the past which led to imaginations of the habitation and the emergence of the world we see today.	Human Values, Environment and Sustainability




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

1.3.1

**Institution integrates cross- cutting issues relevant to
Gender, Environment and Sustainability, Human Values
and Professional Ethics into the Curriculum**

**F) List of B.Voc ID Courses which addresses crosscutting
issues and Syllabus details**


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
 Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

1.3.1. B) List of B.arch courses which addresses crosscutting issues and syllabus details

SYLLABUS DETAILS FOR ACADEMIC YEAR FROM 2018 TILL DATE				
Class	Course Code	Course Name	Issues Addressed	Detail Description
1ST YEAR - SEM I	101	Interior Design Studio - 1	Human Value	In this semester the learner is expected to apply the basic design acumen and anthropometric observations in the designing of Residential interior spaces such as Individual rooms (Living/ Dining not less than 25.00 Sq.mts & Kitchen not less than 12.00 Sq.mts.) of an apartment and are expected to present the study through detailed measured drawings and sketches. All specified areas are Carpet Areas.
	102	Interior Construction - 1	Professional ethics	To introduce basic materials used in construction, basic components of a building and method of construction and representation of the same.
	103	Interior Services - 1	Environment and Sustainability	Introduction to the principles of water supply, sanitation and drainage system and various types of sanitary fittings and fixtures to enable learner design appropriate service layout.
	104	Communication Skills - 1	Professional Ethics	To enhance verbal and non verbal communication skills of students with an intention to improve the skills of reading and writing, language and conversational ability in various mediums such as presentation (written - graphics and audio) face to face etc.
	105	Interior Drawings & Representation Skills - 1	Professional Ethics	Introduction to graphical language and representation techniques in the form of technical drawings to enable learners to visualize the design in an effective manner.
	106	Basic Design Studio - 1	Human Value	The subject aims at developing observational and creative skills that would enhance the visual perception of students and evolve aesthetic sensitivity.


 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
 Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M /

Date :

	107	Interior Materials & Products-1	Environment and Sustainability	To give an overview of the basic materials that are used in Interior and Architecture with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions.
	108	History of Furniture-1	Human Values	To create awareness of History as an aid to design process
IST YEAR - SEM II	201	Interior Design Studio - 2	Human Value	In this semester the learner is expected to enhance their skills by application of design concept and/or theme to residential interior space and small retail space by understanding the usage of basic materials and construction.
	202	Interior Construction - 2	Professional ethics	To equip the learner with various systems of partitioning and paneling with appropriate means of construction, assembly and joinery through detailed working drawing and to make students aware of future trends in furniture design.
	203	Interior Services - 2	Environment and Sustainability	Introduction to the principles of Electrification and lighting to enable learner design appropriate service layout.
	204	Communication Skills - 2	Professional Ethics, Gender Equity	To enhance verbal and non verbal communication skills of students with an intention to improve the skills of reading and writing, language and conversational ability in various mediums such as presentation (written - graphics and audio) face to face etc.
	205	Interior Drawings & Representation Skills -2	Professional Ethics	The learner will be introduced to the basic principles of perspectives and sciography and its application to the field of interior design and drawings.
	206	Basic Design Studio - 2	Professional Ethics, Human Value	Evolving further from course content of semester 1, the focus of study shall be based on application of the observational and creative skills to the Design and planning process.


 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
 Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M /

Date :

	207	Interior Materials & Products - 2	Environment and Sustainability	To give an in-depth knowledge and understanding of the materials that are used in Interior and Architecture with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions and also the aesthetic value it will add with its use.
	208	History of Furniture - 2	Human Values	To create awareness of History as an aid to the design process.
2ND YEAR - SEM III	301	Interior Design Studio - 3	Human Value, Environment and Sustainability	The learner is expected to apply advanced skills to planning of residential interior spaces with clear understanding and usage of contemporary materials, construction techniques and services required for the design project. Study and application of anthropometry, ergonomics, basic design principles and components related to the hospitality environment .
	302	Interior Construction - 3	Professional ethics	To equip the learner with various structural systems, Floor system, Roofing systems and means of construction , assembly and joinery through detailed working drawings.
	303	Interior Services - 3	Environment and Sustainability	To equip the learner with concepts and principles of natural and mechanical ventilation and air conditioning .
	304	Communication Skills - 3	Professional ethics, Gender Equity	To develop in learner skills of critical appreciation and analysis of design, sharpen convincing skills , oratory skills and develop effective communication in context to the interior design profession.
	305	Interior Drawings & Representation Skills - 3	Professional Ethics	To introduce basic understanding of other software like Architectural Desktop, Revit, Archicad etc including 3D modeling (creating shades and shadows, attaching materials and rendering) , CAD customization for different project types.


 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth

COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

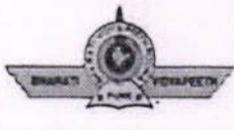
Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

2ND YEAR - SEM III	306	Environmental Studies - 1	Environment and Sustainability	To introduce the concept and principles of the environment and its impact on interior spaces, including climatic study and parameters of human comfort . Learners should be exposed to the use of preliminary analysis tools used during the early planning stages of an interior project.
	307	Interior Materials & Products - 3	Environment and sustainability	Introduction of advanced materials and products that are used in Interior and Architecture in the current day and age. Knowledge of these materials and their implementation will help in the enhancement and upliftment of projects. It will also cater to the specific use of products keeping in mind the final utilization and precautionary measures that need to be consciously considered while designing.
	308	Interior Design Studio - 4	Human Value, Environment and Sustainability	In this semester the learner is expected to enhance their skills of planning Hospitality spaces and commercial environments with clear understanding and application of functionality, space usage.
2ND YEAR - SEM IV	401	Interior Design Studio - 5	Human Value, Environment and Sustainability	In this semester the learner is expected to apply individual professional design acumen with enhanced skills of planning interior spaces related to commercial activity with use of eco-friendly materials and practices . Learner will provide due emphasis to the relationship of space to the contextual environment, achieving individual interpretations through client profiling, case studies and framing of requirements.
	402	Interior Construction - 4	Professional ethics	To equip the learner with various partitioning systems, false ceiling systems, false floors and means of construction, assembly and joinery through detailed working drawings.


 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

2ND YEAR - SEM IV	403	Interior Services - 4	Environment and Sustainability	In this semester the learner will be introduced to the principles of lighting, heating, ventilation and conditioning of air as applicable interior spaces.
	404	Communication Skills - 4	Professional Ethics	To develop in learner skills of critical appreciation and analysis of design , sharpen convincing skills oratory skills and develop effective communication in context to the interior design profession.
	405	Interior Drawings & Representation Skills - 4	Professional Ethics	In this semester the learner will learn the actual application of all the software, learned so far, viz Architectural Desktop, Revit, Archicad etc. including 3D modeling (creating shades and shadows, attaching materials and rendering), CAD customization for specific projects or presentations of all the subjects.
	406	Interior Professional Practice - 1	Professional Ethics	In this semester the learner will be equipped with knowledge and skills needed such as estimating, costing, analyzing rates and processes of tendering for practicing the profession of Interior Architecture.
	407	Electives - 1	Professional ethics	The topic for elective courses shall be developed by individual colleges based on the current trends in the practice and availability of resource persons.
	408	Interior Working Drawing - 1	Professional Ethics	In this semester the learner is expected to prepare working drawings and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes.
3RD YEAR - SEM V	501	Interior Design Dissertation-1	Professional ethics, Human Value	In this semester the learner should have a focused individualistic approach towards design as per the brief finalized in consultation with the guide resulting in a professionally satisfying presentation.


 Principal

Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
 M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
 Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

3RD YEAR - SEM V	502	Interior Working drawing - 2	Professional ethics	In this semester the learner is expected to prepare working drawings and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes.
	503	Interior Services-5	Human values	In this semester the learner is expected to understand the basic planning and working the following Interior small Lifts Conveyor Belts Escalators
	504	Research Methodology	Professional ethics, Human Value, Environment and Sustainability	The study of the subject aims to understand the fundamentals of theoretical aspects of studying interior spaces based on varying situations and conditions as part of research, with reference to its objectives and its essential methodologies.
	505	Interior Drawings & Representation Skills - 5	Professional Ethics	COMPUTER AIDED DRAFTING In this semester the learner will learn actual application of all the software, learned so far, viz Architectural Desktop, Revit, Archicad etc. including 3D modeling (creating shades and shadows, attaching materials and rendering), CAD customization for specific project or presentations of all the subjects.
	506	Interior Professional Practice - 2	Professional Ethics	In this semester the learner will be equipped with knowledge and skills needed such as management of office along with current practices, codes of conduct required to enhance skills and techniques.
	507	Elective-2	Professional ethics	The topic for elective courses shall be developed by individual colleges based on the current trends in the practice and availability of resource persons.
3RD YEAR - SEM VI	601	Interior Professional Practice	Professional ethics	During this semester the learner will have to undergo training outside the institute , in such offices / organizations which will give the learner the necessary opportunity to improve.


 Principal

Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

BACHELOR OF VOCATION (INTERIOR DESIGN)

(3 YEAR DEGREE COURSE WITH MULTIPLE EXIT POINTS)

Syllabus (Course Content)

Semester-I

101 Interior Design Studio-1

Credits:	6	
Teaching Hours:	Lectures: ----	Studio: 96 periods of 1 hour each
Sessional Marks:	Internal: 100	External: -----
Examination:	Interior Design paper of 6 hours duration for 50 marks. Min. 20 marks for passing	

Objective

In this semester the learner is expected to apply the basic design acumen and anthropometric observations in the designing of Residential interior spaces such as Individual rooms (Living/ Dining not less than 25.00 Sq.mts & Kitchen not less than 12.00 Sq.mts.) of an apartment and are expected to present the study through detailed measured drawings and sketches.

All specified areas are Carpet Areas.

Contents

- Introduction to parameters of design, anthropometrics and ergonomics, human activity and use of interior spaces and furniture.
- Analysis of design to perceive elements which define the character of the environment.
- Analysis of design process.
- Concept formation for design.

Evaluation

Continuous assessment of sessional work in form of sketches, scaled drawings, study models invarious materials, case studies, visit reports, power point presentations etc.

Design portfolio should consist of Project Brief, Client profile, Measurement Plan, Furniture Layout Plan/ Flooring Layout/ Sectional Elevations.

Faculty ratio

One teacher per twelve students.

Note

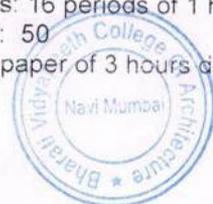
Six hours studio shall not be at a stretch.

REFERENCES:

1. Ahmed Kasu, Interior Design, TWAINE Pub. Bombay
2. Sudhir Diwan, Sanskruti a manual of Interior Design Vol-1, Interior Affairs, Mumbai
3. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992.
4. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
5. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004.
6. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guptaill, 1979. Karlen
7. Barner, R.M., (1980), Motion and Time Study, Design and Measurement of work, John Wiley, New York.
8. Borgert, E. (1982) Housecraft – Principles and Practices, Issac Pitman, London.
9. Chaffin, D.B. and Andersson, G.B.J. (1984) Occupational Biomechanics, John Wiley, New York.
10. Cromwell, L. Weibell, F.J. and Pfeirffer, E.A. (1991) Biomedical Instrumentation and
11. Measurements, Prentice Hall, New Delhi
12. Pranav Bhatt 'Fundamentals of Art and Design'

102 Interior Construction-1

Credits:	5	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 64 periods of 1 hour each
Sessional Marks:	Internal: 50	External: -----
Examination:	Theory paper of 3 hours duration for 50 marks. Minimum 20 marks for passing	



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Objective

To introduce basic materials used in construction, basic components of a building and method of construction and representation of the same.

Contents

- **Structural components:** Introduction to structural components and elements of built structure.
- **Walling Systems:** Brick walls for interior division of spaces and other uses (half brick and one brick thickness). Light weight concrete blocks, hollow blocks, aerated concrete blocks.
- **Joinery:** Introduction to joinery and joints, limitations and applications.
- **Openings:** Doors, windows, ventilators with focus on different modes of operation and their jamb linings. Types of Lintels and Arches based on structure and materials. Structural glazing
- **Doors and Windows:** Types based on mode of operation, material and positioning.

Evaluation

- Continuous assessment of sessional work should consist of scaled drawing plates for topics Doors, Windows, Lintels and Arches.
- Assessment of topics-Structural glazings, Structural components, Walling systems and joinery to be assessed in form of sketches, visit reports, power point presentations.

Faculty ratio

One teacher per twelve students.

REFERENCES:

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell" s Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
3. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.

103 Interior services - 1

Credits:	3		
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio:	32 periods of 1 hour each
Sessional Marks:	Internal: 50	External:	-----
Examination:	Theory paper of 2 hours duration for 50 marks. Minimum 20 marks for passing		

Objective

Introduction to the principles of water supply, sanitation and drainage system and various types of sanitary fittings and fixtures to enable learner design appropriate service layout.

Contents

- Cold and hot water distribution systems, types of water supply pipes and joints, fixtures and fittings.
- Soil and waste water disposal systems, types of sanitary pipes and joints.
- Plumbing works for Kitchens, toilets, baths, washing machines, dishwasher, refrigerator, loft tanks etc.
- Detail for bath Tubs, Rain Shower, Shower system, Jacuzzis.
- Distribution and disposal layout.

Evaluation

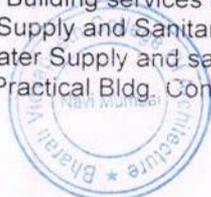
Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio

One teacher per batch

REFERENCES:

1. Rangawala, S.C Engineering Materials, Charter publishing house, Anand 1963.
2. Rangawala, S.C, Building construction, Charter publishing house, Anand 1963
3. Rangawala .S.C., Water supply and sanitary Engineering, publishing house, Roorkee.
4. Pratap R.M (1988) Interior Design Principles and practice, Standard publishers distribution, Delhi.
5. F. Hall, Plumbing technology, British Library Cataloguing in Publication Data
6. Shubhangi Bhide, Building services & equipments, Rudra offset
7. H. L. Ohri, Water Supply and Sanitary Engineering, Charotar Publishing House
8. C. Panchdhari, Water Supply and sanitary installations, Bureau of Indian Standards, N.Delhi
9. Sandeep Mantri, Practical Bldg. Const. & its mgmt., Mantri proj. & consultancy Pvt Ltd



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

104 Communication Skills-1

Credits: 2
Teaching Hours: Lectures: 32 periods of 1 hour each Studio: -----
Sessional Marks: Internal: 50 External: -----

Objective

To enhance verbal and non verbal communication skills of students with an intension to improve the skills of reading and writing, language and conversational ability in various mediums such as presentation (written - graphics and audio) face to face etc. To enable the student to ultimately explain / defend his/her design to single person or panel.

Contents

- Verbal and non verbal communication
- Body language and vocalic
- Writing skills
- Presentation skills
- Personal grooming and confidence building
- Debates, Skits, Group discussions

Evaluation

Continuous assessment of sessional work may consist of evaluation of individual's writing and presentation skills, project work, power point presentations etc.

Faculty ratio

One teacher per batch.

Reference Books:

1. Geetha Jajivan, Kiranmai: Course in listening and speaking Skills part I, Foundation Books Pvt Ltd.
2. Lorven: Enrich your communication in English

105 Interior Drawings & Representation Skills-1

Credits: 4
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 48 periods of 1 hour each
Sessional Marks: Internal: 50 External: -----

Objective

Introduction to graphical language and representation techniques in form of technical drawings to enable learner to visualize the design in effective manner.

Contents

- Drafting techniques, graphic codes, symbols and architectural lettering
- Architectural scales
- Solid geometry
- Orthographic projections of simple , complex solids and hollow objects, Sections
- Isometric and axonometric projections.
- Rendering techniques

Evaluation

Continuous assessment of sessional work should consist of and scaled drawings for geometrical objects, solid geometry and orthographic projections

Faculty ratio

One teacher per twelve students.

Reference Books:

1. Stephen Kliment, Architectural Sketching and Rendering: Techniques for Designers and Artists, Watson Guptill, 1984.
2. Ivo.D. Drpic, Sketching and Rendering of Interior Space, Watson- Guptill, 1988.
3. Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition wiley publishers, 2007



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

4. Mogali Delgade Yanes and Ernest Redondo Dominquez, Freehand drawing for Architects and Interior Designers, ww.Norton & co., 2005
5. Francis D.Ching, Design Drawing, Wiley publishers
6. Atkin William W. Corbellent, Raniero and Fiore. R. Vincent, Pencil Techniques in Modern Design. 4th ed. Reinhold pub Corporation. New York, 1962.
7. Bately, Claude. Design Development of India Architecture.
8. Bellings, Lance Bowen. Perspective space and Design.
9. Burden, Ernest, Architectural Delineation: A photographic approach to presentation, 2nd ed, McGraw Hill, Inc., New York, 1982.
10. Conli, Claudius. Drawings by Architects.
11. John. F. Pile, Perspective for Interior Designers, Watson – Guptill, 1989.
12. Ernest. R. Norling, Perspective made easy, Dover publications, 1999
13. Joseph D, Amelio, Perspective Drawing Hand book, Dover publications, 2004
14. Sketchbook by Milind Mulik
15. Colour Pencil by Rahul Deshpande & Gopal Nandurkar
16. Pencil Sketching - Vyaktichitre by Pundalik Vaze

106 Basic Design Studio-1

Credits: 6
 Teaching Hours: Lectures: ----- Studio: 96 periods of 1 hour each
 Sessional Marks: Internal: 50 External (Viva-Voce): 50

Objective

Basic design defines the base of design aspects, in terms of design elements and principles that are generically applicable to any design stream including interior design.

The subject aims at developing observational and creative skills that would enhance the visual perception of students and evolve aesthetic sensitivity.

Content

The course content would be developed by individual colleges in accordance with their time frames. The scheme would include visual studies primarily applicable to graphic, product, furniture design, art and architecture etc., with special emphasis on study of forms, colours, light, textures, and similar visual elements.

Evaluation

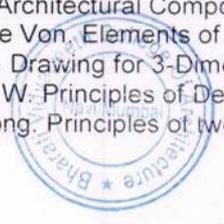
Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, journals, visit reports, power point presentations etc.

Faculty ratio

One teacher per twelve students.

Reference Books:

1. Ching, Francis D.K. Architecture Form, space, and Order, 2nd ed. Van Nostrand Reinhold, New York, 1996.
2. Hanks, A.David. Decorative Designs of Frank Lloyd Wright, Dover Publications, Inc. New York, 1999.
3. Helper, E.Donald, Wallach, I.Paul. Architecture Drafting and Design, 3rd ed. McGraw-Hill Book Company, New York, 1977.
4. John.F. Pile, Color in Interior Design, Mc-Graw Hill professional, 1st edition, 1997
5. Johannes Item, The Art of color, John Wiley & Sons; Revised edition, 1997
6. Jonathan Pore, Interior Color by Design, Volume 2: A design tool for Home owners, Designers and Architects, Rockport publishers, 2005.
7. Ethel Rompilla, Color for Interior Design, Harry N. Abrams, 2005.
8. Itten, Johannes. Design and Form: The basic course at the Bauhaus, Thames and Hudson Ltd., London 1997.
9. Krier, Rob. Architectural Composition, Academy Editions, London, 1988.
10. Meiss, pierre Von, Elements of Architecture: Form to place, E and FN Spon, London, 1992.
11. Pipes, Alan. Drawing for 3-Dimensional Design. Thames and Hudson Ltd., London, 1990.
12. Smithies, K.W. Principles of Design in Architecture. Chapman and Hall, 1983.
13. Wucius, Wong. Principles of two Dimensional Design. Van Nostrand Reinhold 1972.



14. Thinking Design By Prof S Balram
15. Visual Thinking by Frank M. Young
16. Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G, Princeton Architectural Press, NY, USA
17. How Designers think: the design process demystified by Lawson B., Architectural Press, Oxford
18. Design Methods by Jones C. J., John Willey and Sons, Inc.

Web Sites:

www.graphicdesignbasics.com

107 Interior Materials & Products-1

Credits: 2
 Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 16 periods of 1 hour each
 Sessional Marks: Internal: 50 External: -----
 Examination: Theory paper of 2 hours duration for 50 marks. Minimum 20 marks for passing

Objective

To give an overview of the basic materials those are used in Interior and Architecture with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions.

Contents

- Natural stones
- Bricks, light weight concrete blocks
- Cement, concrete
- Ceramics
- Commercial forms of wood
- Timber
- Glass
- Bamboo

For all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through **Market Research and Presentations** by students there upon.

Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

Faculty ratio

One teacher per thirty students

REFERENCE BOOKS:

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell" s Elementary Building Construction, Technical Press Ltd.
3. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
4. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
5. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi, 1990.
6. Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
7. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.

108 History of Furniture-1

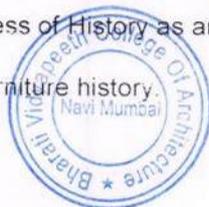
Credits: 2
 Teaching Hours: Lectures: 32 periods of 1 hour each Studio: -----
 Sessional Marks: Internal: 50 External: -----

Objective

To create awareness of History as an aid to design process

Contents

- Introduction to furniture history.




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

- Evolution of furniture over a period based on climate, social factors, life style, technical and stylistic development availability of materials and various movements in design.
- Introduction to furniture terminology based on methods of joinery techniques such as marquetry, marquetry gilding, turning, pierced and chip carving, ormolu mounts.
- Ancient civilization, art, architecture of Egypt. Furniture preserved in ancient pyramids.
- Ancient classical orders developed by them and various methods to overcome optical illusion. Furniture developed by Greeks and Romans by 3rd century A.D.
- Medieval era in Europe, utilitarian furniture developed from Romanesque till Gothic times. Gothic cathedrals preserving art, manuscripts, furniture, paintings, sculptures, stain glass.
- Beginning of Renaissance-second golden era in Europe, age of discovery. Renaissance furniture of Italy and France.
- Baroque and Rococo furniture of 17th century Europe.
- Neoclassical and Regency period in history of furniture-18th century
- Prominent names in the field of Architecture, sculptures, paintings international and Indian

Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio

One teacher per batch.

Reference Books:

1. Joseph Aronson, The Encyclopedia of Furniture: Third Edition ,1961
2. Bradley Quinn, Mid-Century Modern: Interiors, Furniture, Design Details, Conran Octopus Interiors, 2006.
3. Jim Postell, Furniture Design, Wiley publishers, 2007.
4. Edward Lucie-Smith , Furniture: A Concise History (World of Art) , Thames and Hudson, 1985
5. Robbie. G. Blakemore, History of Interior Design and Furniture: From Ancient Egypt to Nineteenth-Century Europe, Wiley publishers, 2005.
6. John.F. Pile, Interior Design, 2nd edition, illustrated, H.N.Abrams, 1995.

Semester-II

201 Interior Design Studio-2

Credits:	6	
Teaching Hours:	Lectures: -----	Studio: 96 periods of 1 hour each
Sessional Marks:	Internal: 100	External : -----
Examination:	Theory paper of 6 hours duration for 50 marks. Minimum 20 marks for passing	

Objective

In this semester the learner is expected to enhance their skills by application of design concept and/or theme to residential interior space and small retail space by understanding the usage of basic materials and construction.

Contents

- Designing a medium size residential spaces (Master Bedroom not less than 18.00 sq.mts with Attached Toilet not less than 5.00 sq.mts & Childrens Bedroom not less than 18.00 sq.mts).
- Study and application of anthropometry, ergonomics, design principles and components related to retail spaces. The design exercise may include small retail spaces such as Garment Boutique, mobile stores, Accessories store, small Café etc. (not exceeding 30.00 sq.mts.)

All specified areas are Carpet Areas.

Evaluation

Continuous assessment of sessional work may consist of sketches, scaled drawings study models in various materials, case studies, visit reports, power point presentations etc.



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/, Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Basic Electrical Layout, Sectional Elevations.

Faculty ratio

One teacher per twelve students.

Note:

Six hours studio shall not be at a stretch.

REFERENCES:

1. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992.
2. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
3. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004.
4. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guptill, 1979.
5. Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.

202 Interior Construction-2

Credits: 5
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 64 periods of 1 hour each
Sessional Marks: Internal: 50 Exam : -----
Examination: Theory paper of 3 hours duration for 50 marks. Minimum 20 marks for passing

Objective

To equip the learner with various systems of partitioning and paneling with appropriate means of construction, assembly and joinery through detailed working drawing and to make student aware of future trends in furniture design.

Contents

- **Partition Systems:** Wooden framed fixed partition with single/double skin, Aluminium framed Partition, Dry wall partition systems, Full glass partition with architectural hardware.
- **Wall Cladding and Paneling:** Wet and Dry wall cladding in different materials, Wall paneling in different materials.
- **Modular furnitures:** Introduction to modular furniture, analyzing the need and criteria for selection, materials used and constructional details.

Evaluation

- Continuous assessment of sessional work should consist of scaled drawings for partitions, cladding and paneling systems.
- Assessment of topic modular furniture to be assessed in form of sketches, visit reports, journals, power point presentations etc.

Faculty ratio

One teacher per twelve students.

REFERENCES:

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell" s Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
3. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 200
4. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi, 1990.
5. Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
6. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.
7. S.K.Duggal, Building Materials, Illustrated, A.A.Balkema, 1998.




Principal

Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

203 Interior services -2

Credits: 3
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 32 periods of 1 hour each
Sessional Marks: Internal: 50 External: -----
Examination: Theory paper of 2 hours duration for 50 marks. Minimum 20 marks for passing

Objective

Introduction to the principles of Electrification and lighting to enable learner design appropriate service layout.

Contents

- Introduction to electrical systems as applicable to interior spaces.
- Electrical system designs including materials, specifications and types.
- Learning electrical layouts, symbols etc.
- Types residential lighting, fittings , fixtures and switches.
- Introduction to automation in lighting industry.

Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio

One teacher per batch.

REFERENCES:

1. Electrical wiring and contracting (vol. 1 to vol.4), London. The New era Publishing Company.
2. Dr Frith Abnwo and others, Electrical Engineering hand book.
3. William . J. Guinness, Mechanical and Electrical Systems for Buildings, New York : Mc Graw Hill.
4. Faber, Oscar and Kell, J.R. Heating and Air conditioning of Building. Architectural Press, surrey, 1945.
5. Prasad Manohar, Refrigeration and air-conditioning. 5th ed, New Age Intl. pub, New Delhi, 1996.

204 Communication Skills-2

Credits: 1
Teaching Hours: Lectures: 32 periods of 1 hour each Studio:
Sessional Marks: Internal: 50 External: -----

Objective

To enhance verbal and non verbal communication skills of students with an intension to improve the skills of reading and writing, language and conversational ability in various mediums such as presentation (written - graphics and audio) face to face etc. To enable the student to ultimately explain / defend his/her design to single person or panel.

Contents

- Interpersonal skills
- Analytical writing skills
- Business writing skills
- Technical writing skills
- Personal grooming and confidence building
- Debates, Skits, Group discussions

Evaluation

Continuous assessment of sessional work may consist of evaluation of individual's writing and presentation skills, project work, power point presentations etc.

Faculty ratio

One teacher per batch.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Reference Books:

1. K K Nelson, F Dubors, Learning to learn, Allyn & Bacon
2. E. H. McGrath, Basic Managerial Skills for all, Prentice hall of India
3. P D Kulkarni & B B Sharma, Independent Study Techniques, TTTI, Chandigarh
4. Elizabeth Hierney, 101 Ways to Better Communication, Kogan Page
5. Malvika Nagarkar, Communication Skills, MSBTE
6. Wren & Martin, English Grammar, Chand Books
7. Burgoon Michael, Human Communication, London: Sage Pub.
8. G Leech & Jan Svartvik, A Communicative grammar of English, ELBS
9. R K Bansal & J B Harrison, Spoken English for India, New York: Mcgraw Hill
10. J D O'Conner, Better English Pronunciation, N Delhi: Orient Longman
11. Technical Communication : A Reader Centered Approach, by Anderson, Thomson Learning
12. Geetha Jajivan, Kiranmai: Course in listening and speaking Skills part I, Foundation Books Pvt Ltd.
13. Lorven: Enrich your communication in English

Web Sites:

www.mindtools.com
www.samcerto.com
www.stress.org.uk
www.coopcomm.org/workbook.com
www.mapnp.org/lib/grpskill/theory.htm

205 Interior Drawings & Representation Skills-2

Credits: 4
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 48 periods of 1 hour each
Sessional Marks: Internal: 50 Exam : -----

Objective

The learner will be introduced to the basic principles of perspectives and sciography and its application to the field of interior design and drawings.

Contents

- Sciography of two dimensional objects in plan and elevation.
- Sciography of three dimensional objects in plan, elevation and views
- Basic terms, principles, types and techniques of perspective
- One, two and three point perspective of simple interior elements (drafted and free hand)
- Presentation of interior views (drafted and free hand) with pencil and colour rendering

COMPUTER SOFTWARES-

Introduction to fundamentals of computer systems, hardware, peripheral devices, operating systems, application software etc in interior practice, understanding and application of MS-Word, Power point, sketch Up software etc.

Reports/ presentation and analytical work: Microsoft Word/ Power Point/ Excel.

Drawing tools: 2D CAD/ Sketch up basics.

Evaluation

Continuous assessment of sessional work consists of sketches and scaled drawings etc.

Faculty ratio

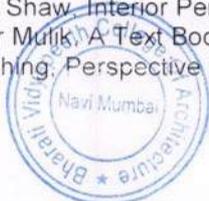
One teacher per twelve students.

Note:

The students are expected to acquire necessary skills by pursuing a course in the vacation to enhance skill development in handling softwares.

REFERENCES:

1. N.D. Bhatt, Engineering drawing- Plane & Solid Geometry, Charottar Pub. Anand, Gujrat
2. S. C. Rein Koff, Interior Graphics and Design Standards, Whitney Library, New York
3. Robert W. Gill, The Thames and Hudson Manual of Rendering with pen and ink, Thames & Hudson ltd. London
4. Graphic Shaw, Interior Perspectives to Architectural Designs
5. Shankar Mulik, A Text Book of perspectives and graphics, Allied Pub. Bombay
6. F D K Ching, Perspective Drawing




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

206 Basic Design Studio-2

Credits: 6
Teaching Hours: Lectures: ----- Studio: 96 periods of 1 hour each
Sessional Marks: Internal: 50 External (Viva-Voce): 50

Objective

Evolving further from course content of semester 1, the focus of study shall be based on application of the observational and creative skills to Design and planning process.

Contents

- Interplay of planning principles like balance, harmony, rhythm etc
- Study and application of anthropometry and ergonomics as a tool to understand aesthetic and functional concepts of design.
- Concepts of evolving technology and space modulation
- History, styling and theme based designs

Evaluation

Continuous assessment of sessional work may consist of sketches, drawings, study model in various materials, journals, visit reports, power point presentations etc.

Faculty ratio

One teacher per batch

Note:

Six hours studio shall not be at a stretch.

Reference Books:

1. Ching, Francis D.K. Architecture Form, space, and Order, 2nd ed. Van Nostrand Reinhold, New York, 1996.
2. Hanks, A.David. Decorative Designs of Frank Lloyd Wright, Dover Publications, Inc. New York, 1999.
3. Helper, E.Donald, Wallach, I.Paul. Architecture Drafting and Design, 3rd ed. McGraw-Hill Book Company, New York, 1977.
4. John.F. Pile, Color in Interior Design, Mc-Graw Hill professional, 1st edition, 1997
5. Johannes Itten, The Art of color, John Wiley & Sons; Revised edition, 1997
6. Jonathan Pore, Interior Color by Design, Volume 2: A design tool for Home owners, Designers and Architects, Rockport publishers, 2005.
7. Ethel Rompilla, Color for Interior Design, Harry N. Abrams, 2005.
8. Itten, Johannes. Design and Form: The basic course at the Bauhaus, Thames and Hudson Ltd., London 1997.
9. Krier, Rob. Architectural Composition, Academy Editions, London, 1988.
10. Meiss, pierre Von. Elements of Architecture: Form to place, E and FN Spon, London, 1992.
11. Pipes, Alan. Drawing for 3-Dimensional Design. Thames and Hudson Ltd., London, 1990.
12. Smithies, K.W. Principles of Design in Architecture. Chapman and Hall, 1983.
13. Wucius, Wong. Principles of two Dimensional Design. Van Nostrand Reinhold 1972.

207 Interior Materials & Products-2

Credits: 2
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 16 periods of 1 hour each
Sessional Marks: Internal: 50 Exam : -----
Examination: Theory paper of 2 hours duration for 50 marks. Minimum 20 marks for passing

Objective

To give an in-depth knowledge and understanding of the materials that are used in Interior and Architecture with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions and also the aesthetic value it will add with its use.

Contents

- Artificial stones, semi-precious stones
- Paints, polishes,
- Ferrous and non-ferrous metals,
- Plastics and Polycarbonates



- Floor coverings and furnishings

For all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through Market Research and Presentations by students there upon.

Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc

Faculty ratio

One teacher per thirty students.

REFERENCES:

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell" s Elementary Building Construction, Technical Press Ltd.
3. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
4. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
5. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi, 1990.
6. Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
7. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.

208 History of Furniture-2

Credits: 2

Teaching Hours: Lectures: 32 periods of 1 hour each Studio: -----

Sessional Marks: Internal: 50 External: -----

Objective

To create awareness of History as an aid to design process.

Contents

- English furniture from 16th to 18th century. Tudor, Stuart, Jacobean, Restoration period, Queen Ann period, Gregorian period, Chippendale, Sheraton.
- Beginning of 19th century industrialization.
- Victorian Era in England, Art and Craft movement in design.
- Art Nouveau movement in art and furniture. Art movements before and after world wars.
- Cubism of Picasso, De-stijl movement.
- Bauhaus school of Design and its impact on modern design.
- Art Deco movement.
- Oriental furniture and how it is different from western counterparts. Furniture of Japan and China.
- Indian furniture, traditional and colonial.

Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio

One teacher per batch

REFERENCES:

1. John F. Pile, A history of interior design, 2nd edition, Laurence King Publishing, 2005.
2. Jeannie Ireland, History of Interior Design, air child publications, illustrated ed., 2009.
3. Elaine, Michael Dywer, Christopher Mackinnon, Norman A. J. Berisford Denby , A History of Interior Design, Rhodoc International, 1983.
4. Giedion Sigfried, Space, Time and Architecture: The growth of a new tradition, 4th ed. Harvard University Press, Cambridge, 1962.
5. Taddell Cristopher, The History of Architecture in India: From the dawn of civilization to the End of the Raj , Om Book Service, New Delhi, 1990.
6. Rowl Bejamin. Art and Architecture of India.



[Signature]

Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Semester-III

301 Interior Design Studio-3

Credits: 6
Teaching Hours: Lectures: ----- Studio: 96 periods of 1 hour each
Sessional Marks: Internal: 100 External (Viva-Voce): 50

Objective

The learner is expected to apply advanced skills to planning of residential interior spaces with clear understanding and usage of contemporary materials, construction techniques and services required for the design project. Study and application of anthropometry, ergonomics, basic design principles and components related to hospitality environment.

Contents

- Design of Studio Apartment of Small or medium size not exceeding 50.00 sq.mts. (Carpet Area)
- Large multilevel luxury residence such as a Penthouse, Bungalow etc. (Carpet Area between 200.00 to 300.00 sq.mts)

Evaluation

Continuous assessment of sessional work may consist of sketches, perspective drawings, scale drawings, study models in various materials, case studies, visit reports, power point presentations etc.

Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/ Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Electrical Layout/ Lighting Layout, Sectional Elevations/ Perspective Views).

Faculty ratio

One teacher per twelve students.

Note:

Six hours studio shall not be at a stretch.

REFERENCES:

1. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992.
2. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
3. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004.
4. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guptill, 1979.
5. Maureen Mitton, Interior Design Visual Presentation: A Guide to Graphics, Models, and Presentation Techniques. John Wiley and Sons, 2003
6. Mark.W. Lin, Drawing and Designing with Confidence: A step-by-step guide, Wiley and Sons, 1993.
7. Robert Rengel, Shaping Interior Space, Fairchild Books & Visuals ,2002

302 Interior Construction-3

Credits: 5
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 64 periods of 1 hour each
Sessional Marks: Internal: 100 External (Viva-Voce): 50

Objective

To equip the learner with various structural systems, Floor system, Roofing systems and means of construction, assembly and joinery through detailed working drawings.

Contents

- **Structural Systems:** Introduction to different structural systems for buildings:-
Load bearing brick/stone masonry - its application in interior field.
RCC frame structure with column, beam, slab, cantilevers etc. – its application in interior field.
Steel framed construction with different rolled sections - its application



Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- **Floor Systems:** in interior field.
Single floor in wood and steel with different floor finishes. Introduction to double floor in steel.
- **Stairs:** Single flight wooden staircase and dog-legged RCC, metal staircase.
Principles of steel spiral stairs.
- **Roofing Systems:** Pitch roof/lean-to roof in steel with coated metal sheets, colour clay tiles and water proofing of flat terrace and toilet.

Evaluation

Continuous assessment of sessional work should consist of drawing plates, journals, visit reports, sketch books, power point presentations etc.

Faculty ratio

One teacher per twelve students.

References

1. Joseph De Chaira Jullius Panero Martin Zelnik, Time Saver Standard for Interior Design & Space Planning, Mcgraw Hill New York
2. John Pile, Interior Design, Harry N. Adry Publishers
3. Ahmed Kasu, Interior Design, TWAIN Pub. Bombay
4. Jullius Panero Martin Zelnik, Human Dimensions and Interior Spaces, Whitney Library New York
5. Phillis Sleen Allen, Beginning of Interior Environment, New York
6. Shirish Bapat, Basic Design of Anthropometry, Bela books Publishers
7. Shirish Bapat Living Area (Interior Space) Bela books Publishers
8. Francis D K Ching, Interior Design Illustrated, Van Norstrund, New Delhi
9. V. S. Parmar, Design Fundamental in 1st architecture, Somaiya Pub. Pvt. Ltd.
10. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2

303 Interior services -3

Credits: 3

Teaching Hours: Lectures: 16 periods of 1 hour each

Studio: 32 periods of 1 hour each

Sessional Marks: Internal: 50

External (Viva-Voce): 50

Objective

To equip the learner with concept and principles of natural and mechanical ventilation and air-conditioning.

Contents

- Introduction to HVAC.
- Principles of thermal comfort parameters for humans.
- Principles of natural ventilation.
- Heat load calculations.
- Introduction to air conditioning systems (at least few lectures should be given by AC agency), methods of air conditioning, equipment and components used in air conditioning.
- Selection criteria for air conditioning systems.
- Ducting principles, layout schemes and placement of air conditioner outlets in central air conditioning systems.
- Mechanical ventilation and its application.
- Introduction to Acoustics and its application to interiors.




 Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio

One teacher per batch

References

1. Norbert Lechner, Heating, cooling, Lighting Design, Library of congress Cataloguing in Publication Data
2. Donald Hoff, Building services and equipments, Library of congress Cataloguing in Publication Data
3. Ernest Tricomi, ABC of Air-conditioning, D. B. Taraporevala & sons
4. Madan Mehta & James Johnson, Architectural Acoustics, Principles and Design
5. Frank and John Walk, Noise and vibration, British Library Cataloguing in Publication Data

304 Communication Skills-3

Credits: 1

Teaching Hours: Lectures: 32 periods of 1 hour each

Studio:

Sessional Marks: Internal: 50

External: -----

Objective

To develop in learner skills of critical appreciation and analysis of design, sharpen convincing skills, oratory skills and develop effective communication in context to interior design profession.

Contents /Assignments

- Voice culture, vocalic and body language
- Analysis and describe interior work carried out any professional designer.
- Preparing and presenting verbal explanation on his own design and concept.
- Review of design related articles.
- Debates, discussions

The Subject in this semester teaches students about the critical analysis and appreciation of the design. This enhances the power of convincing. The student starts giving reason for his likes & dislikes. All this will ultimately result in to a good verbal explanation of the design & the concept.

Evaluation

Continuous assessment of sessional work may consist of project work, power point presentations etc.

Faculty ratio

One teacher per batch.

REFERENCES:

1. Write better, speak better (Reader's digest Publication)
2. Building your Vocabulary – John G. Gilmartin
3. Instant Vocabulary – Gopal K. Puri.
4. Contemporary English Grammer, Structure & Composition. David Green (Macmillan& Co Ltd.)
5. Tiger's Eye – Alan Mc Connell Duff. (Oxford University Press)
6. J. D. O. Connor UBS Better English Pronunciation.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

7. Dianna Booher – Ewriting - 21st century, Tools for effective communication pocket books. Simon & Schuster inc. JSBN – O 7434- 1258-3
8. Ashi Hi Inragi (Marathi) Prof. N. D. Apte Rajhans Prakashan Pune.
9. Osborn Michael/ Osborn Suzane. Public Speaking, Biztantra, New Delhi.
10. Durodula Sahrolyn P. Learn Reading- Anmol Publications Pvt. Ltd., New Delhi.
11. Narula Uma, Business Communication Practices-Modern Trends, Atlantic Publishing House, Mumbai.
12. Kumar Keval. J, Mass Communication In India, Jaico Publishing House, Mumbai.
13. Information and Communication Technology by Abdul Mannan Himalaya Publishing House, Mumbai.

305 Interior Drawings & Representation Skills-3

Credits: 5
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 64 periods of 1 hour each
Sessional Marks: Internal: 50 External: -----

Objective

To introduce basic understanding of other software like Architectural Desktop, Revit, Archicad etc including 3D modeling (creating shades and shadows, attaching materials and rendering), CAD customization for different project types.

Learner will be required to apply all the above skills learned during this semester on the design assignments prepared in the previous / current semester and present it for assessment.

Contents /Assignments

- Needs and tools for design and drafting.
- Preparation of two dimensional interior drawings (including plans, elevations and sections), incorporating layers, line-weights, texts, scale, dimensioning
- Formatting of drawings for taking prints and plots.

Evaluation

Continuous assessment of sessional work may consist of application of various skills learned during the semester on the previous / current semester design portfolio.

Faculty ratio

One teacher per thirty students.

306 Environmental Studies-1

Credits: 2
Teaching Hours: Lectures: 32 periods of 1 hour each Studio:
Sessional Marks: Internal: 50 External: -----

Objective

To introduce the concept and principles of environment and its impact on interior spaces, including climatic study and parameters of human comfort. Learner should be exposed to use of preliminary analysis tools used during the early planning stages of an interior project.

Contents

- Climatic factors which affect thermal comfort in humans, along with its interface with Interiors.
- Importance of materials in the Interiors. Properties of materials.
- Importance of day lighting, IAQ its application and ventilations
- Water and its conservation
- Introduction to sustainable material
- Concept of Reduce-Reuse - Recycle
- Properties of materials and heat transfer.
- Evaluation of materials on environmental aspects




Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

- Lighting design and energy usage, conservation of energy.
- Introduction to all mechanical systems used in the interiors.
- Understanding of LEED, GRIHA. Leadership in energy and environmental design.

Evaluation

Continuous assessment of sessional work may consist of project work, case studies, research, power point presentations etc.

Faculty ratio

One teacher per batch.

REFERENCES:

1. Rai G.D (1996), Solar Energy Utilization, Khanna Publishers, Delhi.
2. Riggs, J.R. (1992) Materials and components of Interior Design, Regents Hall, New Jersey.
3. Faulkner, R., and Faulkner. S, (1987) Inside Today's Home, Rinehart publishing House, Newyork.
4. Roa, M.P. (1998), Interior design, principles and practice, standard publishers, Delhi.
5. Despande, R.S, (1974) Build your own home, United book corporation, Poona.

307 Interior Materials & Products-3

Credits:3

Teaching Hours: Lectures: 16periods of 1 hour each Studio: 32 periods of 1 hour each

Sessional Marks: Internal: 50 External: -----

Objective

Introduction of advanced materials and products that are used in Interior and Architecture in the current day and age. Knowledge of these materials and their implementation will help in the enhancement and upliftment of projects. It will also cater to the specific use of products keeping in mind the final utilization and precautionary measures that need to be consciously considered while designing.

Contents

- Materials and techniques used for water-proofing.
- Fire retardant materials and their applications.
- Thermal insulating materials and their applications.
- Outdoor and infrastructural products used as substitutes in today's times.

Major part of this semester will focus on **Market Research and Presentations** by students.

Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

Faculty ratio

One teacher per thirty students.

308 Interior Design Studio-4

Credits: 4

Teaching Hours: Lectures: -----

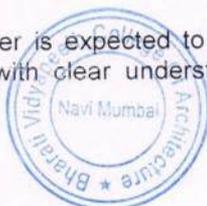
Sessional Marks: Internal: 50

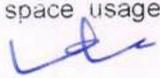
Studio: 64 periods of 1 hour each

External (Viva-Voce): 50

Objective

In this semester the learner is expected to enhance their skills of planning of Hospitality spaces and commercial environment with clear understanding and application of functionality, space usage and




 Principal 22
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

concept/theme, use of contemporary materials, construction techniques and advanced services required for the design project.

Contents /Assignments

- The design exercise may include large fine-dining restaurant with partly open-air area with due importance to differently abled user(Universal design), for a realistic site. (Carpet Area not less than 150.00 sq.mts)
OR
- Design activity based small to medium sized commercial interior spaces such as branch office of Bank, Branch office of Multi National Corporation etc with due importance to differently abled user.(Universal design).(Carpet Area not less than 150.00 sq.mts)

Evaluation

Continuous assessment of sessional work may consist of sketches, scaled drawings, study models in various materials, case studies, visit reports, power point presentations etc. Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/ Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Electrical Layout/ Lighting Layout, Sectional Elevations/ Perspective Views).

Faculty ratio

One teacher per twelve students.

Note:

Six hours studio shall not be at a stretch.

Semester-IV

401 Interior Design Studio-5

Credits: 6
Teaching Hours: Lectures: -----
Sessional Marks: Internal: 100

Studio: 96 periods of 1 hour each
External (Viva Voce): 50

Objective

In this semester the learner is expected to apply individual professional design acumen with enhanced skills of planning interior spaces related to commercial activity with use of **eco friendly** materials and practices. Learner will provide due emphasis to the relationship of space to the contextual environment, achieving individual interpretations through client profiling, case studies and framing of requirements. The subject further explores application of advanced knowledge to materials used, construction techniques, modular furniture and services.

Contents /Assignments

- The assignment may include large commercial projects like corporate office of a Multi National corporation.
OR
- Designing activity based small to medium sized Public spaces such as Art Gallery, Convention centers, Multiplexes etc.
OR
- SPA/ Saloon/ Therapy Centre
OR
- Theme Dine Restaurant.

NOTE: The carpet area of the project should not be less than, 300.00 sq.mts.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Evaluation

Continuous assessment of sessional work may consist of sketches, cad generated drawings, study models in various materials, case studies, visit reports, power point presentations etc.

Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/ Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Electrical Layout/ Lighting Layout, Sectional Elevations/ Perspective Views).

Computer Aided Drawings are expected in this Semester.

Faculty ratio

One teacher per twelve students.

Note:

Six hours studio shall not be at a stretch.

402 Interior Construction-4

Credits: 5

Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 64 periods of 1 hour each

Sessional Marks: Internal: 100 External (Viva-Voce): 50

Objective

To equip the learner with various partitioning systems, false ceiling systems, false floors and means of construction, assembly and joinery through detailed working drawings.

Contents

- **Advance Partition Systems:** Sliding folding partition in metal and glass. Thermal/Acoustical partition and paneling in metal frame finished in various materials, movable partitions
- **False Ceiling : Concepts Systems:** Gypsum board ceiling, modular ceiling systems in various materials.
- **Raised flooring Systems:** Raised floor for commercial spaces and I.T. rooms.

Evaluation

Continuous assessment of sessional work may consist of cad generated drawings, journals, visit reports, sketch books, power point presentations etc.

Faculty ratio

One teacher per twelve students.

REFERENCES:

1. Joseph De Chaira Jullius Panero Martin Zelnik, Time Saver Standard for Interior Design & Space Planning, Mcgraw Hill New York
2. John Pile, Interior Design, Harry N. Adry Publishers
3. Ahmed Kasu, Interior Design, TWAINE Pub. Bombay
4. Jullius Panero Martin Zelnik, Human Dimensions and Interior Spaces, Whitney Library New York
5. Phillis Sleen Allen, Beginning of Interior Environment, New York
6. Shirish Bapat, Basic Design of Anthropometry, Bela books Publishers
7. Shirish Bapat Living Area (Interior Space) Bela books Publishers
8. Francis D K Ching, Interior Design Illustrated, Van Norstrund, New Delhi
9. V. S. Parmar, Design Fundamental in 1st architecture, Somaiya Pub. Pvt. Ltd.
10. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2




Principal
Bharati Vidyapeeth 24
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

403 Interior Services- 4

Credits: 3
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 32 periods of 1 hour each
Sessional Marks: Internal: 50 External (Viva-Voce): -----
Examination: Theory paper of 2 hours duration for 50 marks with 40% passing marks.

Objective

In this semester the learner will be introduced to the principles of lighting, heating, ventilation and conditioning of air as applicable interior spaces.

Contents

- Illumination standards and artificial lighting design and lighting power density.
- Day light integrated lighting systems, timers and sensors.
- Different types of illuminations.
- Study of lighting fixtures and fittings used in interior spaces, special lighting systems for malls or displays.
- Provisions of standards and energy codes related to interior electrical services.
- Automation in lighting industry

Evaluation

Sessional work may include application of above knowledge on their previous/current semester design. Continuous assessment of sessional work may consist of project work, case studies, research, Power point presentations etc.

Faculty ratio

One teacher per batch.

REFERENCES:

1. John.F. Pile, Interior Design, 2nd edition, illustrated, H.N.Abrams, 1995.
2. Wanda jankowski, Lighting : In Architecture and Interior Design, pbc intl, 1995.
3. Moore Fuller, Concepts and practice of Architectural Day lighting, Van Nostrand Reinhold co., New York, 1985.
4. David Egan. M. Concepts in Architecturallighting Mcgraw Hill Book company, New York, 1983.

404 Communication Skills - 4

Credits: 2
Teaching Hours: Lectures: 32 periods of 1 hour each Studio: -----
Sessional Marks: Internal: 50 External (Viva-Voce): -----

Objective

To develop in learner skills of critical appreciation and analysis of design, sharpen convincing skills oratory skills and develop effective communication in context to interior design profession.

Contents

- Designing message outline – organizing ideas determining the general and specific purpose of communication implementing principal of written communication messages , analyzing the recover of written messages , context etc .
- Writing topic: sentences paragraph function paragraph summary, information text etc.
- Drafting report: Shorts reports concepts and contents of long reports effective sentence construction, punctuation, and presentation of the text.
- Developing public speaking skills.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio

One teacher per batch.

Reference Books:

1. Write better, speak better (Reader's digest Publication)
2. Building your Vocabulary – John G. Gilmartin
3. Instant Vocabulary – Gopal K. Puri.
4. Contemporary English Grammer, Structure & Composition. David Green (Macmillan & Co Ltd.)
5. Tiger's Eye – Alan Mc Connell Duff. (Oxford University Press)
6. J. D. O. Connor UBS Better English Pronunciation.
7. Dianna Booher – Ewriting - 21st century Tools for effective communication pocket books.Sinon & Schuster inc. JSBN – O 7434- 1258-3
8. Ashi Hi Inragi (Marathi) Prof. N. D. Apte Rajhans Prakashan Pune.
9. Osborn Michael/ Osborn Suzane. Public Speaking, Biztantra, New Delhi.
10. Durodula Sahrolyn P. Learn Reading- Anmol Publications Pvt. Ltd., New Delhi.
11. Narula Uma, Business Communication Practices- Modern Trends, Atlantic Publishing, House, Mumbai.
12. Kumar Keval. J, Mass Communication In India, Jaico Publishing House, Mumbai.
13. Information and Communication Technology by Abdul Mannan Himalaya Publishing, House, Mumbai.

405 Interior Drawings & Representation Skills-4

Credits: 4
Teaching Hours: Lectures: ----- Studio: 64 periods of 1 hour each
Sessional Marks: Internal: 50 External (Viva-Voce): -----

Objective

In this semester the learner will learn actual application of all the software, learned so far, viz Architectural Desktop, Revit, Archicad etc. including 3D modeling (creating shades and shadows, attaching materials and rendering), CAD customization for specific project or presentations of all the subjects. Learner will be required to apply all the above skills learned during this semester on the design assignments prepared in the previous / current semester and present it for assessment.

Contents

- Software applications
- Plotting techniques

Evaluation

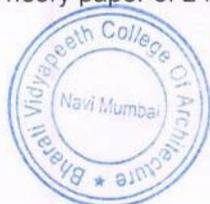
Continuous assessment of sessional work may consist of application of various skills learned during the semester on the previous / current semester design portfolio.

Faculty ratio

One teacher for Thirty students.

406 Interior Professional Practices -1

Credits: 3
Teaching Hours: Lectures: 48 periods of 1 hour each Studio: -----
Sessional Marks: Internal: ----- External : -----
Examination: Theory paper of 2 hours duration for 50 marks with 40% passing marks.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Objective

In this semester the learner will be equipped with knowledge and skills needed such as estimating, costing, analyzing rates and processes of tendering for practicing profession of Interior Architecture.

Contents

ESTIMATING, COSTING AND ANALYSING RATES

(To be taught as consulting interior designer and not as a turnkey.)

- Introduction to concept of estimation, costing and rate analysis. Need for estimating, costing and rate analysis.
- Components of estimation, costing and analyzing rates (drawings and specifications, units and modes of measurements, work output, material and labour cost, contingencies, professional fees, indirect costs etc.
- Methods of estimating (lump-sum, work specific, item rate etc.); costing (percentage basis, item rate basis etc) and rate analysis (item rate basis).

Note: Students are also expected to visit exhibitions, material manufacturers units, ongoing interior sites, attend seminars and presentations of consultants and vendors related to interior profession.

Faculty ratio

One teacher per thirty students.

REFERENCES:

1. Roshan Namavati, Professional Practice (Estimation & Valuation), Lakhani Book depot
2. Roshan Namavati, Architectural Detailing in Residential Interiors, Lakhani Book depot
3. C M Pitrowski, Professional Practice in Interior Design, Van Nostrand Reinhold
4. Harry Siegel, CPA, Alan Sigel, A Guide to Business Principle and Practices for Interior Designers, Whitney library of design.
5. William R. Hall, Contract Interior Finishes, Whitney library.
6. William Rupp, Construction Materials of Interior Design, Whitney Library.

407 Elective-1

Credits: 3

Teaching Hours: Lectures: -----

Sessional Marks: Internal: 50

Studio: 48 periods of 1 hour each

External (Viva-Voce): -----

Contents

The topic for elective courses shall be developed by individual colleges based on the current trends in the practice and availability of resource persons. However, few topics are suggested for the elective course.

1. Interior Lighting
2. Interior Landscape
3. Sustainable Interior
4. Set Design
5. Interior Project Management
6. Furniture Design
7. Product Design

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

Faculty ratio

One teacher per elective batch.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

408 Interior Working Drawing -1

Credits: 4
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 48 periods of 1 hour each
Sessional Marks: Internal: 50 External (Viva-voce): 50

Objective

In this semester the learner is expected to prepare working drawing and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes. The learner is suggested to prepare working drawing and related details of the following furniture designed by them in the previous semesters.

Contents

Working drawing of the following may be prepared based on the design projects done in Sem.-III & IV

1. Dining Table with Chair in wood.
2. Study table
3. Shoe rack with louvers.
4. Double Bed with head board and Side Tables in plywood and wood.
5. His and Her wardrobe in plywood as basic material.
6. Wall unit / Partition divider
7. Built-in Kitchen Platform / platform shutters / trolleys.
8. Staircase railing in metal or glass.
9. In-house hydraulic lift up to two persons.

Note: Continuous assessment of sessional work may consist of Computer generated drawing, journals, visit reports, sketch books, power point presentations etc.

Faculty ratio

One teacher per ten students.

REFERENCES:

1. F D K Ching, Building Construction Illustrated, Van Nortrand
2. William P. Spence L. Duane Griffith, Furniture & Cabinet Construction, Prentice Hall Inc. New Jersey
3. Mario Dal Fabro, How To Build Modern Furniture, McGraw Hill Book Company, New York.
4. William P. Spence L. Duane Griffith, Cabinet making, design & construction, Prentice Hall Inc. New Jersey
5. D.A.C.A. Boyne, Architects' Working Detail Vol. I/ III/ IV/ V & VIII, The Arch. Press Ltd. London

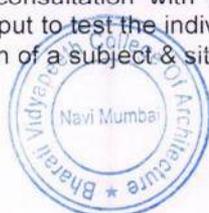
Semester-V

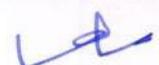
501 Interior Design Dissertation-1

Credits: 8
Teaching Hours: Lectures: ----- Studio: 128 periods of 1 hour each
Sessional Marks: Internal: 100 External (Viva-voce): 200

Objective

In this semester the learner should have a focused individualistic approach towards design as per the brief finalized in consultation with the guide resulting in professionally satisfying presentation of the design that would put to test the individual strength and caliber of the learner. The student has a complete choice for selection of a subject & site. The scale shall be more or less standard for all the students.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Evaluation

Continuous assessment of sessional work may consist of design developments at various stages indicating the above in the given time frame as set by the guide/subject coordinator.

At the end of the Semester each learner is required to submit the final finished, rendered drawings to suitable scale with related detailing supplemented with concise Detailed Project Report (40-70 pages, all certified by the guide/subject coordinator and Principal which may be presented for final Viva-voce examination.

Faculty ratio

One teacher per Eight students.

502 Interior Working drawing - 2

Credits: 5
Teaching Hours: Lectures: 16 periods of 1 hour each Studio: 64 periods of 1 hour each
Sessional Marks: Internal: 50 External (Viva-voce): 50

Objective

In this semester the learner is expected to prepare working drawing and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes. The learner is suggested to prepare working drawing and related details of the following furniture designed by them in the previous semesters.

Objective

Working drawing of the following may be prepared based on the design projects done in Sem. - V & VI

1. Executive Desk with side / back credenza.
2. Reception Counter
3. Conference Table
4. Shop front / Show window
5. Bank Counter/Ticket booking Counter
6. Bar Counter/Pantry Counter
7. Modular furniture systems
8. Furniture for differently abled

Evaluation

Continuous assessment of sessional work may consist of Computer generated drawings, journals, visit reports, sketch books, power point presentations etc.

Faculty ratio

One teacher per ten students.

REFERENCES:

1. F D K Ching, Building Construction Illustrated, Van Nortrand
2. William P. Spence L. Duane Griffith, Furniture & Cabinet Construction, Prentice Hall Inc. New Jersey
3. Mario Dal Fabro, How To Build Modern Furniture, McGraw Hill Book Company, New York.
4. William P. Spence L. Duane Griffith, Cabinet making, design & construction, Prentice Hall Inc. New Jersey
5. D.A.C.A. Boyne, Architects' Working Detail Vol. I/ III/ IV/ V & VIII, The Arch. Press Ltd. London

503 Interior Services-5

Credits: 4
Teaching Hours: Lectures: 1 periods of 1 hour each Studio: 48 periods of 1 hour each
Sessional Marks: Internal: 50 External (Viva-Voce): 50




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Objective

In this semester the learner is expected to understand the basic planning and working of the following

- Interior small Lifts
- Conveyer Belts
- Escalators

Contents

Introduction to the principles of communication, safety and security systems as applicable to interior spaces. They will be dealt with the following topics in detail:-

- Types of communication- data, telephone systems and their usage and application, server rooms.
- Fire safety systems – fire fighting provisions, types and applications.
- Fire retarding materials, fire rated doors etc.
- Introduction to principles of security, types of security systems, access control and its applications.
- CCTV

Sessional work may include application of above knowledge on their previous / current semester design.

Evaluation

Continuous assessment of sessional work may consist of project work, case studies, research, power point presentations etc.

Faculty ratio

One teacher per batch.

REFERENCES:

1. Derek Clements-Croome, Derek J. Croome, Intelligent buildings: Design, Management and Operation, Thomas Telford Books, London, 2004.
2. Albert Ting-pat So, Wai Lok Chan, Intelligent Building Systems, Kluwer Academic Publishers, 1999.

504 Research & Methodology

Credits: 2

Teaching Hours: Lectures: 32 periods of 1 hour each Studio: -----

Sessional Marks: Internal: 50 External (Viva-voce): -----

Objective

The study of the subject aims to understand the fundamentals of theoretical aspects of studying interior spaces based on varying situations and conditions as part of research, with reference to its objectives and its essential methodologies. Learner should be able to do documentation and data collection, critical analysis and evaluation. To develop an attitude for Critical Thinking and various aspects to study and analyze, Assessment, dispositions, skills and abilities and obstacles or barriers to critical thought

Evaluation

Continuous assessment of sessional work may consist of project work which will assist the learner in the preparation of his/her Design Dissertation Report.

Faculty ratio

One teacher per batch.

505 Interior Drawings & Representation Skills-5

Credits: 4

Teaching Hours: Lectures: -----

Sessional Marks: Internal: 50

Studio: 64 periods of 1 hour each

External (Viva-voce): -----




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

Objective

COMPUTER AIDED DRAFTING

In this semester the learner will learn actual application of all the software, learned so far, viz Architectural Desktop, Revit, Archicad etc. including 3D modeling (creating shades and shadows, attaching materials and rendering), CAD customization for specific project or presentations of all the subjects.

Contents

- Software applications
- Plotting techniques

Learner will be required to apply all the above skills learned during this semester on the design assignments prepared in the previous / current semester and present it for assessment.

Evaluation

Continuous assessment of sessional work may consist of application of various skills learned during the semester on the previous / current semester design portfolio.

Faculty ratio

One teacher per Thirty students.

506 Interior Professional Practice-2

Credits: 4

Teaching Hours: Lectures: 64 periods of 1 hour each Studio: -----

Sessional Marks: Internal: ----- External (Viva-voce) : -----

Examination: Theory paper of 2 hours duration for 50 marks with 40% passing marks.

Objective

In this semester the learner will be equipped with knowledge and skills needed such as management of office along with current practices, codes of conduct required to enhance skills and techniques of managing small and large scale residential and commercial interior projects.

Contents

TENDER AND TENDERING

- Introduction, definitions and Tender types.
- Tendering Procedure: Tender document preparation, types of invitation (public notice, private invitation and negotiation), floating of tender, opening and award of tender.
- Aspects of Tender: Units of measurement and modes of measurements; specifications of raw material (introduction only), schedule writing.
- Contents of Tender Document: Undertaking from contractor, prequalification of tender, general and special conditions of tender, bill of quantities, general specifications, material specification, special specification, set of working drawings.
- Contractual Procedures: Work order letter and acceptance letter, Interim bills and final bills, bills certifications.

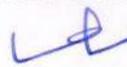
CAREER OPPORTUNITIES AND PROFESSIONAL ETHICS

- Avenues for professional practice including advantages and limitations
- Professional Ethics
- Codes of conduct and responsibility towards clients, fellow professionals, profession, contractors, suppliers, other consultants and the society.
- Entering the profession.

OFFICE AND INTERIOR PROJECT MANAGEMENT

- Working of interior design studio and ideal office structure, distribution of work, authority, duties and responsibilities, reporting etc.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

- Work ethics: Acts applicable, basis for professional fees and scales of fees, accounting, maintenance of books of accounts and records.
- Basic principles of management and application to interior designing projects.
- Introduction to Bar Charts, Gantt Chart, PERT / CPM.

Students are also expected to visit exhibitions, material manufacturers units, ongoing interior sites, attend seminars and presentations of consultants and vendors related to interior profession.

Faculty ratio

One teacher per thirty students.

REFERENCES:

1. Gupta C.B, and Srinivasan N.P, Entrepreneurship development in India, Sultan Chand & Sons, New Delhi, 2004.
2. Chunawalla S.A, Sales Management, Himalayan Publishing House, New Delhi, 1991.
3. Vasant Desai, Project Management and entrepreneurship, Himalaya Publishing House, New Delhi, (2000).
4. David H.Moll, Entrepreneurship, Prentice Hall of India, New Delhi, 1999. Frank Jerkins, Advertising, Prentice Hall of India, New India, 2000.

507 Elective-2

Credits: 3
Teaching Hours: Lectures: ----- Studio: 48 periods of 1 hour each
Sessional Marks: Internal: 50 External (Viva-Voce): -----

Contents

The topic for elective courses shall be developed by individual colleges based on the current trends in the practice and availability of resource persons. However, few topics are suggested for the elective course.

1. Interior Lighting
2. Interior Landscape
3. Sustainable Interior
4. Interior Project Management
5. Set Design
6. Furniture Design
7. Product Design

Faculty ratio

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc

Faculty ratio

One teacher per elective batch.



[Handwritten Signature]

Principal
 Bharati Vidyapeeth
 College of Architecture
 Belpada Complex, Opp. Kharghar
 Rly. Station, C.B.D, Navi Mumbai

Semester-VI

601 Interior Professional Practice

Credits: 16
Teaching Hours: Lectures: ----- Studio: -----
Sessional Marks: Internal: ----- External (Viva-Voce): 200

Professional Training: (16-18 weeks duration)

During this semester the learner will have to undergo training outside the institute, in such offices / organizations which will give the learner the necessary opportunity to improve and consolidate his/her knowledge in the interior design profession.

During the practical training period the learner is expected to work in accordance with the discipline of the organization and will have to make progress which will be carefully monitored by the institution. The learner will have to submit the detailed report of the experience gained during the professional training.

Logbooks will have to be maintained by the learner and counter signed by the Head of the organization and also by the professor in-charge.

Pro-forma for Professional Training

Academic Year:-

Name of the Student:-

Name of the Organization with address:-

Registration Details (if any):-

Date of Joining:-

Date of Leaving:-

Employers Report:- Brief details of the experience gained by the student stating the nature of work.

Signature of Employer

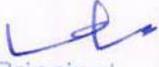
Signature of the Professor In-Charge

EVALUATION

At the end of the training period, a viva-voce would be conducted on:

1. The experience and the knowledge gained during the period of training.
2. Overall knowledge in the subject of tenders, specifications and rate analysis.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai

**REGULATIONS OF BACHELOR OF VOCATION
(INTERIOR DESIGN)
SEMESTER I TO VI (3 YEAR DEGREE PROGRAMME WITH MULTIPLE EXIT POINTS)**

**BACHELOR OF VOCATION (INTERIOR DESIGN)
SEMESTER-I**

Bachelor of Vocation (Interior Design) Semester-I examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-I of Bachelor of Vocation (Interior Design) which will be conducted by the College affiliated to the University of Mumbai.

- R..... A candidate for being eligible for appearing to the theory examination of Semester-I of the Bachelor of Vocation (Interior Design) programme-
- a) Must have kept 75% attendance for Semester-I of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.
 - b) Must have passed internal heads of passing for the courses of Semester-I for which Viva-Voce examinations are to be conducted.

**BACHELOR OF VOCATION (INTERIOR DESIGN)
SEMESTER-II**

R..... Admission to Semester-II of the Bachelor of Vocation (Interior Design) Programme

A candidate for being eligible for admission to the Semester-II of the Bachelor of Vocation (Interior Design) degree programme of the University of Mumbai-

- a) Must have kept 75% attendance for Semester-I of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.

Bachelor of Vocation (Interior Design) Semester-II examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-II of Bachelor of Vocation (Interior Design) programme which will be conducted by the College affiliated to the University of Mumbai.

- R..... A candidate for being eligible for appearing to the examination of Semester-II examination of the Bachelor of Vocation (Interior Design) programme,
- a) Must have kept 75% attendance for Semester-II of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.
 - b) Must have passed internal heads of passing for the courses of Semester-II for which Viva-Voce examinations are to be conducted.

**AT THE END OF FIRST YEAR UPON SUCCESSFUL COMPLETION OF SEMESTER-I AND II
STUDENTS WILL BE AWARDED DIPLOMA (INTERIOR DESIGN)**

**BACHELOR OF VOCATION (INTERIOR DESIGN)
SEMESTER-III**

R..... Admission to Semester-III of the Bachelor of Vocation (Interior Design) Programme

A candidate for being eligible for admission to the Semester-III of the Bachelor of Vocation (Interior Design) degree programme of the University of Mumbai-

- a) Must have kept 75% attendance for Semester-II of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Railway Station, C.B.D, Navi Mumbai

b) Must have passed Semester-I

Bachelor of Vocation (Interior Design) Semester-III examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-III of Bachelor of Vocation (Interior Design) programme which will be conducted by the College affiliated to the University of Mumbai.

R..... A candidate for being eligible for appearing to the theory examination of Semester-II of the Bachelor of Vocation (Interior Design) programme,

a) Must have kept 75% attendance for Semester-III of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.

**BACHELOR OF VOCATION (INTERIOR DESIGN)
SEMESTER-IV**

R..... Admission to Semester-IV of the Bachelor of Vocation (Interior Design) Programme

A candidate for being eligible for admission to the Semester-IV of the Bachelor of Vocation (Interior Design) degree programme of the University of Mumbai-

a) Must have kept 75% attendance for Semester-III of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.

b) Must have passed Semester-II

Bachelor of Vocation (Interior Design) Semester-IV examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-IV of Bachelor of Vocation (Interior Design) programme which will be conducted by the College affiliated to the University of Mumbai.

R..... A candidate for being eligible for appearing to the Viva-Voce examination of Semester-IV examination of the Bachelor of Vocation (Interior Design) programme,

a) Must have kept 75% attendance for Semester-IV of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.

b) Must have passed internal heads for the courses of Semester-IV for which Viva-Voce examinations are to be conducted.

**AT THE END OF SECOND YEAR UPON SUCCESSFUL COMPLETION OF SEMESTER-III
AND IV STUDENTS WILL BE AWARDED ADVANCE DIPLOMA (INTERIOR DESIGN)**

**BACHELOR OF VOCATION (INTERIOR DESIGN)
SEMESTER-V**

R..... Admission to Semester-V of the Bachelor of Vocation (Interior Design) Programme

A candidate for being eligible for admission to the Semester-V of the Bachelor of Vocation (Interior design) degree programme of the University of Mumbai-

a) Must have kept 75% attendance for Semester-IV of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.

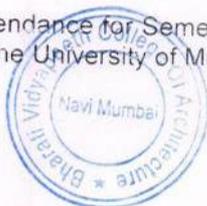
b) Must have passed Semester-III

Bachelor of Vocation (Interior Design) Semester-V examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-V of Bachelor of Vocation (Interior Design) programme which will be conducted by the University of Mumbai.

R..... A candidate for being eligible for appearing to the theory examination of Semester-V of the Bachelor of Vocation (Interior design) programme,

a) Must have kept 75% attendance for Semester-V of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.




Principal

Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Railway Station, C.B.D, Navi Mumbai

- b) Must have passed all internal heads of Semester-IV
- c) Must have passed Semester-III examinations conducted by the college.

R..... A candidate for being eligible for appearing to the Viva Voce examination of Semester-V of the Bachelor of Vocation (Interior Design) programme,

- a) Must have kept 75% attendance for Semester-V of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all internal heads of Semester-IV
- c) Must have passed Semester-III examinations conducted by the college.
- d) Must have passed internal heads of passing for the courses of Semester-V for which Viva-Voce examinations are to be conducted.

BACHELOR OF VOCATION (INTERIOR DESIGN) SEMESTER-VI

R..... Admission to Semester-VI Professional Practice Training of the Bachelor of Vocation (Interior Design) Programme

A candidate for being eligible for admission to the Semester-VI of the Bachelor of Vocation (Interior design) degree programme of the University of Mumbai-

- a) Must have kept 75% attendance for Semester-V of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed Semester-IV.

Bachelor of Vocation (Interior Design) Semester-VI examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-VI of Bachelor of Vocation (Interior Design) programme which will be conducted by the University of Mumbai.

R..... A candidate for being eligible for appearing to the Viva-Voce examination of Semester-VI examination of the Bachelor of Vocation (Interior Design) programme,

- a) Must have completed stipulated 16-18 weeks of professional training of the Bachelor of Vocation (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all five Semesters.

AT THE END OF THIRD YEAR UPON SUCCESSFUL COMPLETION OF SEMESTER-V AND VI STUDENTS WILL BE AWARDED BACHELOR OF VOCATION (INTERIOR DESIGN)




Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M. /

Date :

1.3.1

**Institution integrates cross- cutting issues relevant to
Gender, Environment and Sustainability, Human Values
and Professional Ethics into the Curriculum**

**G) List of topics in the Design Dissertation in B. Voc ID
Program which addresses cross cutting issue**


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

Design Dissertation - Academic Year 2022 - 2023			
Sr. No.	Name of the Students	Design Dissertation Topic Title	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1	Adarkar Madhumanjiri Madhav Dhanashree	Yoga & Meditation Center, Belapur	Professional Ethics
2	Bhashte Poonam Shrirang Sangeeta	Book & Brews Read. Drink. Converse, Bombay (CST)	Professional Ethics
3	Choudhary Vinita Tilokram Dariya	Skills Development Center, Belapur	Professional Ethics
4	Dawale Neha Uddhaw Vaibhavi	The Way Out - Anxiety Counseling Center	Human Values, Environment and sustainability
5	Deokar Shivam Sunil Shivkanya	School of Interior Design	Environment and sustainability
6	Dsouza Aaron Anthony Maria	Shopping Complex, Mandawa	Human Values
7	Dubey Anjali Shyamlal Rajkumari	Rejuvenation Center for patients, Kharghar	Professional Ethics
8	Gade Gauri Girish Rupali	The Jazz Club, Dadar, Mumbai	Human Values
9	Gavali Sonali Sanjay Changuna	Institute For Blind & Impaired	Human Values
10	Gharat Shravani Tukaram Hemlata	Vorean Experience Center, Mumbai	Professional Ethics
11	Gholap Rutuja Bhavesh Bhavika	Admin Office with BIA, Krushi Kshetra	Professional Ethics
12	Gode Isha Amitabh Swati	Lata Mangeshkar Memorial Fort	Human Values,


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

			Environment and sustainability
13	Gupta Omprakash Laxman Sunita	Japanese Restaurant, Pawai	Human Values
14	Jamdar Tanvi Sunil Neha	Fashion Studio, Goregaon	Human Values, Environment and sustainability
15	Jangid Kiran Sohanlal Manju	Textile Museum, Byculla	Professional Ethics
16	Kadam Janhavi Virendra Vrunda	Ayurvedic Healing Center, Khopoli	Environment and sustainability
17	Mahadik Pranali Chandrakant Vanita	Kindergarten, Kharghar	Professional Ethics
18	Mhatre Tejasvi Santosh Priti	Art and Craft Center, Kala Goda, Mumbai	Professional Ethics
19	More Sejal Vinod Sejal	Classical Dance Institute, Thane	Human Values
20	Nadkar Shruti Nilesh Nita	Pediatric Clinic, Mumbai Central	Human Values
21	Pansare Manasvi Dinesh Kishori	Weekend Home, Alibag	Human Values
22	Patil Aditi Bhanudas Renuka	Nightclub, Lower Parel	Human Values
23	Patil Prajwal Kundan Ranjana	Campus Cafe, Kharghar	Human Values
24	Patil Vishal Sarjerao Vanita	The Gurukul System of Education, Navi Mumbai	Professional Ethics
25	Pawar Jay Dnyandev Deepa	Walk In Liquor Shop	Human Values
26	Raut Manoj Dilip Ashwini	Instrumental Music Museum, Pune	Environment and sustainability


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D., Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

27	Raval Disha Rajeshbhai Ritaben	Bridal Boutique, CBD Belapur	Environment and sustainability
28	Sharma Sumeet Shyam	Gaming Parlour, Navi Mumbai	Human Values
29	Anagha Sureshbabu Rathi	Iskcon Temple, Gujarat	Human Values
30	Syed Mohd Owais Akram Shabana	Penthouse, Thane	Human Values
31	Syed Urooj Akram Shabana	Vintage Car Museum, BKC	Professional Ethics, Human Values
32	Thakur Avanti Mahadev Savita	Companion Daycare Center For Canine & Felines Glomax Mall	
33	Thakur Sakshi Sunil Renu	Retirement Home, Nerul	Human Values, Environment and sustainability
34	Thorat Sonali Shivaji Vimal	Co-worker space, Belapur	Environment and sustainability
35	Ubale Kanishka Vishwas Seema	Office, CBD Belapur	Environment and sustainability
36	Anuragi Veena Amit Karuna	Recreation of Memory Heritage Interpretation Center	Professional Ethics, Environment and sustainability
37	Jadhav Yash Sunil Pooja	Interior Design Office	Human Values, Professional Ethics


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

Design Dissertation - Academic Year 2021 - 2022			
Sr. No.	Name of the Students	Design Dissertation Topic Title	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1	Bandre Vaishnavi Sanjay Saili	Psychiatric clinic not A Destination But A Process of Healing	Human Values
2	Choudhary Urmila Govind Gangaben	Bank Cafe - A Different Type of Shared Space	Human Values
3	Dave Devanshi Mahesh Sarita	Fashion Boutique	Human Values
4	Gounday Aasra salim aaliya	Culinary School - Eating is a Necessity While Cooking is an Art	Professional Ethics
5	Kadam Divya Manoj Priya	Boutique a Place for Trendy Fashion	Environment and sustainability
6	Khodade Kajal Gorakhnath lalita	Co - Living Is an Opportunity to live in your own private place but still be part of a family "Vasudhaiva"	Human Values
7	Mane Ankita Chandrakant Lalita	Dance studio - Dance Express The Emotion	Human Values
8	Maurya Rohit Jayprakash Pushpa	Bank	Human Values
9	Mhatre Sneha Krishna Suvarna	Retail Store for Handmade Kitchenware	Human Values, Gender Equity
10	Nachankar Tanya Dinesh Pallavi	Children's Hospital, The effect of color psychology & its the proper application in children	Environment and sustainability


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M /

Date :

11	Naik Rushkar Shaukat Samira	Library Cafe - The Influence of the cafe as the learning place	Professional Ethics
12	Pardule sakshi sudhir snehal	Impact of Lighting	Human Values
13	Patil Disha Mahendra Manvi	Kindergarten	Environment and sustainability
14	Pereira Janice Marilyn M Jacinta	Institute of Art & Craft (IAD) - Design & Its Influence on Students Psychology	Human Values
15	Pol Pranjal Vikas Pratibha	Corporate Office - Exchanging thoughts and social Interaction	Human Values
16	Pujari Kanchan Madhu puja	Boutique hotel an unconventional innovation that involves into purveyors of small luxuries	Professional Ethics
17	Rajput Mahima Hemraj Mamta	Book Publishing Office	Environment and sustainability
18	Shaikh Abdul Waheed A M Roshan Begam	Co Working Space- Enhances Working Efficiency and Social Networking	Human Values, Gender Equity
19	Thakur Sunaina Chetan Priyanka	Kalakriti - Create with Tradition And Innovation	Human Values
20	Ubale Om Ravindra Priti	We work Productions (Film Production Company)	Human Values
21	Yadav Anant Krishna Neelam	Kindergarten	Environment and sustainability
22	Chougule Harshada Bharat Shobha	Commercial Project	Human Values, Gender Equity


Principal

Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV / COA / N.M./

Date :

Design Dissertation - Academic Year 2020 - 2021			
Sr. No.	Name of the Students	Design Dissertation Topic Title	Issues Dealt With (Professional Ethics, Gender Equity, Human Values, Environment And Sustainability)
1	Addanki Lakshmi Manasa Padmavathi	coffee & co intervening home into workspaces	Human Values
2	bhor punam daulat sunita	music academy	Professional Ethics
3	Bokade Simran Kailas	Deaf and Dume School	Human Values, Professional Ethics
4	Desai Madhura Dinesh Sneha	Enhancement of Law firm into the perception of colors and transparency	Human values, Professional Ethics
5	Gangar Isha Vipul Rashmi	Pixel (Historical Museum of interior design)	Professional Ethics
6	Gavali Madhura Ashok Sayali	Yoga Institute	Gender Equity, Human Values
7	Sameer Gori	True Nature's Spa	Human Values, Environment and Sustainability
8	Meshram Neeta Gopal Vandana	Acting school	Human Values, Professional Ethics
9	Mhatre Mansi Jagganath Hemlata	Maggie's Center	Human Values
10	More Bharat Jagganat Ratnamala	Alzhemers Disease and nursing Home Design	Human Values, Professional ethics
11	Patil Harshada	Cosmetics Center	Human Values


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai



Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE

Affiliated to the University of Mumbai



Founder :
Dr. Patangrao Kadam
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal
Prof. Satish Dhale
(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

Ref. No. : BV/COA/N.M./

Date :

12	Pawar Prajakta Pradeep Seema	Meditation Center	Human values, Professional Ethics
13	Pawar Sakshi	The gallery of Modern Art	Professional Ethics
14	Shekha Sana	Creed - Advertising Media Office	Professional Ethics
15	Sukale Bhagyashri Vijay Nilam	Child care, Substantial impact on young children's behavior and social interaction by the way of cozy environment	Human Values
16	Thevar Shraddha Milan Anjali	Residential wellness Center for the People	Human Values
17	Todekar Vishakha Nareesh Anita	Art and Craft Center	Professional Ethics
18	Veta Harshada Rajesh Anita	Winery	Professional Ethics
19	Yadav Priya Awadhnarayan Shashikala	Second Childhood- Return to Infancy	Human Values
20	Zimal Kanchan Gulabrao Maya	Flower shop Interior design Project For Rustic Outlet Concept Design with Beautiful Arrangement and decor Items	Human Values


Principal
Bharati Vidyapeeth
College of Architecture
Belpada Complex, Opp. Kharghar
Rly. Station, C.B.D, Navi Mumbai