



M.V.P.S.'s College of Architecture, Nashik

Udhaji Maratha Boarding Campus, off Gangapur Road, Nashik Phone

: 0253-2570822. Email : cansnashik@mvp.edu.in

Criterion 1– Curricular Aspects

1.3 -Curriculum Enrichment

1.3.1





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Criterion 1 – Curricular Aspects

Key Indicator - 1.3 Curriculum Enrichment

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

Sr. No.	Contents (Documents)	
A)	Description	
B)	List of B. Arch. Courses which addresses crosscutting issues (Syllabus Pattern 2019, 2015)	
1	Syllabus Details <ul style="list-style-type: none">Letter of Implementation of Syllabus.Course Structure of Syllabus which addresses crosscutting issues.	2019 Pattern
2		2015 Pattern
C)	List of Topics in Architectural Design Project course in B.Arch. Programme which addresses crosscutting issues.	
D)	List of Events / Programms / Workshops / Seminars etc organized by Institute in B.Arch. programme which addresses crosscutting issues. (Academic Year 2022-2023)	

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1.3.1

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

A) Description





MVPS's College of Architecture

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

Professional Ethics

- Architecture being a professional program, the Institute adheres & practices professional code of conduct as laid down by the Council of Architecture India & SPPU.
- Institute invites Architects from profession for lecture to upgrade and update about the current practices and knowledge about professional ethics.
- The course like Professional Practice, Practical training (internship), Communication skills helps students to develop knowledge about professional ethics

Gender

- Institute plans year round activities for the gender sensitization by organizing guest lectures on subjects like women's health and hygiene by the professional speakers.
- In courses like Architectural Design students actively work on gender issues and find solutions through design sensibilities.

Human Values

- To inculcate human values in the student's mindset, the students are encouraged to work on projects incorporating universal design, social issues, Slum Redevelopment projects, informal sector, social issues etc...

Environment and Sustainability

- The Institute's philosophy is "Co- existing with nature" It safeguards the environment and promotes various sustainable green practices by conducting various activities like tree plantation, Ganesh idol making in Shadu clay, as a part of their green initiative
- The Institute encourages the use of compost bin and segregates waste as a part of solid waste management.





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B) List of B. Arch courses which addresses cross cutting issue and Syllabus Details

(Syllabus Pattern - 2019, 2015)





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CRITERIA 1.3.1	Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.

Sr. No.	Syllabus Pattern	Year of Introduction	Class	Course Code	Course Name	ISSUES ADDRESSED (Gender, Human Values, Environment and Sustainability, Professional Ethics)	Detail Description
1				121906 (SS)	History of Architecture & Culture I	Human Values	To gain an integrated understanding of settlements, landscape, and architecture as a manifestation of culture and geography.
2				1201907 (SS)	Communication Skills	Professional Ethics	Enhance skills required for effective communication in Architectural education and practice.
3				1201909 (SV)	Architectural Design I	Environment and Sustainability	Study & Analysis of a rural settlement and architecture with respect to lifestyle, Climate and Solid structure.
4				121914 (SS)	History of Architecture & Culture II	Human Values	To introduce students to the developments in architecture of the Indian sub- continent after 12th century AD as a result of the social, political, and geographical contexts. An understanding of architecture as a cultural product shaped by various factors.
5				121915 (SS)	Fundamental of Architecture	Professional Ethics	Introduction to the profession of Architecture, its distinguishing characteristics with respect to other professions.
6				1201917 (SV)	Audit Course I - Creative Writing	Human Values	Fundamentals of architecture -function , structure ,culture and environment and their integration into the architectural form
7				1201917 (SV)	Audit Course I - Creative Writing	Human Values	Writing as an art. Fictional and non-fictional writing. Poetry, short stories, playwriting. Famous Indian writers, poets and play wrights and their works.
8				1201918 (SV)	Audit Course II - Performing Arts	Human Values	Introduction to performing arts across the world through history. Types of Indian performing arts. Introduction to Natya-Shastra. Classical, folk, traditional performing arts. Dance, Music, Drama, Cinema.
9	2019	2019-2020	First Year		Audit Course Democracy, Election & Governance	Gender	Decentralization - Challenges of caste, gender, class, democracy and ethnicity
10						Human Values	To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.
11				2201917 (SV)	Architectural Design II	Environment and Sustainability	To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.
12				2201921 (SS)	Computer Aided Drawing and Graphics	Professional Ethics	To enable the students to communicate an architectural idea / proposal in a legible and effective manner through various architectural presentations and rendering techniques.
13				2201922 (SS)	History of Architecture & Culture III	Human Values	To understand the relationship of religion and society with architecture. An understanding of architecture as a product shaped by various factors like religion and society.
14				2201925 (SS)	Climatology	Environment and Sustainability	To understand climate as a determinant of architectural design and to enable the students to evolve climate responsive design.
15	2019	2020-2021	Second Year	2201926 (SS)	Architectural Design III	Human Values	To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.

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16	2019	2020-2021	Second Year	2201930 (SS)	Environmental Science	Environment and Sustainability	To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.
17						Environment and Sustainability	Basic introduction to Multidisciplinary nature of environmental studies
18						Professional Ethics	Basic introduction to Environment clearance for construction projects. Brief introduction to the concept of "green buildings" and green building rating systems.
19						Human Values	To introduce students to the developments in architecture of the post-medieval Western World as a result of the cultural, political, and economic contexts.
20						Human Values	To analyze physical, socio-cultural and contextual parameters of the site enabling, Site planning
21						Environment and Sustainability	Synthesis Understanding of Natural and Manmade aspects (such as microclimate, topography, hydrology and vegetation), physical and socio-cultural context of the site.
22						Professional Ethics	Introduction to cybercrime. Types of cybercrimes. Do and don'ts while using computers, smart phones, internet. Security measures to protect from crime. Crime detection mechanism and legislation.
23						Human Values	Introduction to Yoga. Benefits of Yoga. Types of yogasanas.
24						Human Values	To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.
25						Environment and Sustainability	To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies
26						Environment and Sustainability	Creating awareness about using Landscape design as a tool to address environmental concerns in Architecture.
27						Human Values	Introduction to Landscape Architecture and its scope, elements (natural and manmade) and their application in achieving functional, aesthetic, environmental and cultural goals.
28						Professional Ethics	Skill of orally presenting a topic of choice, and generating a discussion.
29	Environment and Sustainability	Principles of working of natural ventilation, heating, cooling and HVAC systems, components, materials and provisions in architectural design					
30	Professional Ethics	To enable the students to prepare working drawings of an architectural project and imbibe the significance of working drawings from the point of view of execution of the work on site and as important component of tender documents.					
31	Human Values	To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc. Development of building design program from not only client or user's requirements but also in response to context specific factors like socio-economic, socio-cultural, environmental etc.					
32	2021-2022	Third Year	3201944 (SS)	Architectural Design V	Environment and Sustainability	To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.	

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33				3201952 (SS)	Working Drawing II	Professional Ethics	To imbibe further the importance of working drawings as an essential tool for effective site execution and execution of a building contract.
34				3201953	Audit Course V - Basics of Accounting and Book keeping	Professional Ethics	Introduction to accounting and various terminologies. Maintaining books of account. Debit and credit.
35		2021-2019 2022	Third Year	3201954	Audit Course V - Culinary Art and Practices	Human Values	Introduction to the basic need of food. Geographical and cultural factors affecting food. Various cuisines and culinary arts across the world. Social, health, dietary, aspects of cuisines. Food cultures in modern times. Places of food.
36						Human Values	To evaluate socio-cultural aspects like lifestyle, cultural beliefs and practices, traditions, etc. and their effect on housing design.
37						Environment and Sustainability	To understand various issues and aspects of sustainability, earthquake resistant construction, universal accessibility, etc. and understand how these may be integrated in the architectural design process.
38				4201953	Architectural Design VI	Professional Ethics	To understand and apply legislative aspects with reference to the housing context and setting of the project site (Building byelaws, GDCR, CRZ, EPA, ECBC, GRIHA etc.)
39						Human Values	Affordable housing: introduction and concepts; Contemporary problems of settlements, towns, cities impact of unplanned growth.
40				4201955	Urban Studies I	Professional Ethics	Various aspects of urban land. Understand the implications of various factors such as traffic-transportation, socio-economic, urban landscape etc. influencing the development, rationale of urban regulatory controls.
41						Professional Ethics	To acquaint the student with the role & stature of the Architect in the society and understand duties, liabilities, responsibilities & ethics as a professional.
42						Professional Ethics	Introduction to the nature, scope and avenues of service and professional practice as an Architect, Role of an Architect as a technical professional. Illustrate the changing nature of the Architects.
43						Professional Ethics	To familiarize the student with the Council of Architecture, Architect's Act, Architectural competitions & other allied professional organizations.
44				4201959	Professional Practice	Human Values	Introduction to IIA, IILD, IUDI, ITPI, ISOLA and such professional organizations. Understanding the need for Architects to be aware, sensitive and active in Social and Civic issues in Urban context.
45						Human Values	To evaluate socio-cultural aspects like lifestyle, cultural beliefs and practices, traditions, and their effect on urban spaces and architectural design etc.
46						Human Values	To develop a building design program from not only client or user's requirements but also in response to context specific factors like socio-economic, socio-cultural, environmental etc.
47		2022-2019 2023	Fourth Year	4201960	Architectural Design VII	Professional Ethics	To understand and apply relevant legislative aspects governing building design with reference to the urban context and setting of the site (Building byelaws, GDCR, CRZ, EPA, ECBC, GRIHA etc.)

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48						Environment and Sustainability	To understand and analyze a location in an urban context, preferably in a different socio-cultural-economic setting than that of the institute and document the study in the form of a report with emphasis on relevant aspects like climate, social structure, culture, architectural typology, construction technology, urban fabric, economy, services, traffic movement, etc. or any other issues which need to be considered for envisaging a design project therein in totality.
49						Environment and Sustainability	To understand various issues and aspects of sustainability, earthquake resistant construction, universal accessibility, etc. and understand how these may be integrated in the architectural design process.
50				4201961	Advanced Building Construction & Services II	Professional Ethics	Introduction to construction of high-rise buildings with RCC as a material. Study of Council Norms with NBC Rules & analysis of structural system behavior in high rise / super high-rise structures under different loading conditions.
51						Professional Ethics	To introduce the students to the process of planning and urban development and associated legislation.
52						Professional Ethics	Planning and Urban Design legislation --- introduction and relevance. Unified Building bye laws and Development Control rules of local authorities.
53						Environment and Sustainability	Identification of urban issues related to various aspects such as environment, society, traffic and transportation, hills and hill slopes, riverfront development, urban heritage conservation through primary surveys
54				4201962	Urban Studies II	Human Values	Study of planning process in detail --- (Survey, analysis, proposals and development) for various urban issues. A brief introduction to urban renewal and re-development; study and analysis of urban spaces, people centric designs etc.
55				4201965	Quantity surveying & Specification Writing II	Professional Ethics	Introduction to Analysis of Rate, Factors affecting Rate of any Item of work, Importance of Rate Analysis, Essentials of Rate Analysis. Studying and Working out rate Analysis of standard items of work based on prevailing market rates.
56						Professional Ethics	Introducing to the students "Management Concepts "and the Role of an Architect as Project Manager in executing a project from conceptualization, design stage through the documentation and construction stage..
57						Professional Ethics	Project and Project Environment. Traditional organization structure vs modern project management structure, Importance of Project Manager & role of an Architect as a Project Manager who integrates everyone. Collaborative project environment with multiple stakeholders and need to manage. PMBOK Environment, Concept of Project- Program- Portfolio and Processes / Policies / Procedures to manage these project environments
58				4201966	Project Management	Human Values	Importance of specialized themes in additional to knowledge areas: Project Finance management, Construction Safety management, Facilities management, Design management. Awareness and Introduction to Computer applications for effective Project Management. (not to be included for SPPU examinations)
59		2022-2019 2023	Fourth Year	4201967	Audit Course VII - Right to Information	Professional Ethics	Right to Information Act in India. Its need, scope and significance. Use of right to information. Responsibilities of using RTI. Limitations of using RTI. Case studies and legal precedents of using RTI.

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60	2019	2022-2023	Fourth Year	4201968	Audit Course VIII - Sign Language	Human Values	Introduction to need and significance of inclusive social environment. Communication with the persons who have hearing and speech disabilities. Learning sign language.
61				5201570(SV)	Practical Training	Professional Ethics	To learn about architect's office management and learn about the process of design, execution and management of a project.
62						Professional Ethics	Architecture professionals will have to deal with more and more complex buildings as well as organizational structures to realize a project. Stage. Acknowledging the fact that the Architectural Practice is a team effort and understanding the necessity of management in this field, the following elective topics have been suggested.
63						Human Values	Human Resource Management in Construction
64	2015	2019-2020	Fourth Year	5201572(SS)	Elective IV	Environment and Sustainability	Environment and Energy Policies and Management in Indian Context. Environment Technology Management-Water and Waste Management Technologies

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COURSE STRUCTURE BACHELOR OF ARCHITECTURE [B.Arch.]

The syllabus structure is based upon 28 clock hours per week for 1st to fourth year. Additionally 2 clock hours per week are assigned for utilisation for the lectures / allied activities focussing on the individual philosophy of the institute in form of audit courses / site visits / special lectures / workshops / seminars etc offering choice based activities for the institutes / students. The periods considered for calculating the teaching load are of 60 min duration. The architectural design / architectural design project and building construction studio credits are calculated as 1 hour = 1.5 credits, allied studios/labs/workshops are calculated as 1 hour = 0.5 credits and theory lectures are calculated as 1 hour = 1 credit. The detail structure of the syllabus for the ten semester course is given below.

(Note: SS= Sessional work; In Sem = In Semester exam ; End Sem = End semester exam; SV= Sessional and Viva voce; L= Lecture, S=Studio, T=Total ; Theory Paper -P

FIRST YEAR B.ARCH. SEMESTER I

Course Code	Course Title	L	S	T	Theory		Sessional and / Viva		Total Marks	Credits
					In Sem	End Sem	SS	SV		
1201901	Basic Design	1	6	7			250		250	10
1201902	Building Construction & Materials I[P]	2		2	30	70			100	2
1201903	Building Construction & Materials I[SV]		3	3				100	100	5
1201904	Theory of Structures I	2		2	30	70			100	2
1201905	Architectural Graphics and Drawing I	1	4	5			100		100	3
1201906	History of Arch & Culture I	1	2	3			50		50	2
1201907	Communication Skills	2	1	3			50		50	2
1201908	Workshop I	1	2	3			100		100	2
		10	18	28					850	28
1201917	Audit Course									

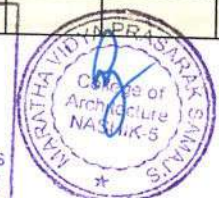
FIRST YEAR B.ARCH. SEMESTER II

Course Code	Course Title	L	S	T	Theory		Sessional and / Viva		Total Marks	Credits
					In Sem	End Sem	SS	SV		
1201909	Architectural Design I	1	6	7				250	250	10
1201910	Building Construction & Materials II[P]	2		2	30	70			100	2
1201911	Building Construction & Materials II[SV]		3	3				100	100	5
1201912	Theory of Structures II	2		2	30	70			100	2
1201913	Architectural Graphics and Drawing II	1	4	5			100		100	3
1201914	History of Arch & Culture II	1	2	3			50		50	2
1201915	Fundamentals of Architecture	2	1	3			50		50	2
1201916	Workshop II	1	2	3			100		100	2
		10	18	28					850	28
1201918	Audit Course									

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SECOND YEAR B.ARCH. SEMESTER III

Course Code	Course Title	L	S	T	Theory		Sessional and / Viva		Total Marks	Credits
					In Sem	End Sem	SS	SV		
2201917	Architectural Design II	1	6	7						
2201918	Building Construction & Materials III[P]	2		2	30	70		250	250	10
2201919	Building Construction & Materials III[SV]		3	3				100	100	5
2201920	Theory of Structures III	2		2	30	70			100	2
2201921	Computer Aided Drawing and Graphics	1	3	4			50		50	2
2201922	History of Arch & Culture III	1	2	3			50		50	2
2201923	Building Services I[P]	2	0	2	30	70			100	2
2201924	Building Services I[SS]	0	2	2			50		50	1
2201925	Climatology	1	2	3			50		50	2
		10	18	28					850	28
2201935	Audit Course									

SECOND YEAR B.ARCH. SEMESTER IV

Course Code	Course Title	L	S	T	Theory		Sessional and / Viva		Total Marks	Credits
					In Sem	End Sem	SS	SV		
2201926	Architectural Design III	1	6	7						
2201927	Building Construction & Materials IV[P]	2		2	30	70		250	250	10
2201928	Building Construction & Materials IV[SV]		3	3				100	100	5
2201929	Theory of Structures IV	2		2	30	70			100	2
2201930	Environmental Science	1	2	3			50		50	2
2201931	History of Arch & Culture IV	1	2	3			50		50	2
2201932	Building Services II[P]	2	0	2	30	70			100	2
2201933	Building Services II[SS]	0	2	2			50		50	1
2201934	Site Survey and Analysis	1	3	4			50		50	2
		10	18	28					850	28
2201936	Audit Course									

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THIRD YEAR B.ARCH. SEMESTER V

Course Code	Course Title	L	S	T	Theory		Sessional and / Viva		Total Marks	Credits
					In Sem	End Sem	SS	SV		
3201935	Architectural Design IV	1	6	7						
3201936	Building Construction & Materials V[P]	2		2	30	70		250	250	10
3201937	Building Construction & Materials V[SV]		3	3				100	100	4
3201938	Theory of Structures V	2		2	30	70			100	2
3201939	Landscape Architecture	1	3	4			100		100	3
3201940	Elective I [Contemporary Architecture]	1	2	3			100		100	2
3201941	Building Services III[P]	2	0	2	30	70			100	2
3201942	Building Services III[SS]	0	1	1			50		50	1
3201943	Working Drawing I	1	3	4			100		100	2
		10	18	28					1000	28
3201953	Audit Course									

THIRD YEAR B.ARCH. SEMESTER VI

Course Code	Course Title	L	S	T	Theory		Sessional and / Viva		Total Marks	Credits
					In Sem	End Sem	SS	SV		
3201944	Architectural Design V[SV]		5	5						
3201945	Architectural Design V*[P]	2		2		100		250	250	8
3201946	Building Construction & Materials VI	2	3	5				150	150	6
3201947	Theory of Structures VI	2		2	30	70			100	2
3201948	Research In Architecture I	1	2	3			50		50	2
3201949	Elective II	1	3	4			100		100	3
3201950	Building Services IV[P]	2		2	30	70			100	2
3201951	Building Services IV[SS]		1	1			50		50	1
3201952	Working Drawing II	1	3	4			100		100	2
		11	17	28					1000	28
3201954	Audit Course									

*The Architectural Design V [Paper] will be of 12 hours duration spread over two days of 6 hours a day. The first day will be 6 hours without break. The second day will be 6 hours with a break after 3 hours.

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FOURTH YEAR B.ARCH. SEMESTER VII

Course Code	Course Title	L	S	T	Theory		Sessional and / Viva		Total Marks	Credits
					In Sem	End Sem	SS	SV		
4201953	Architectural Design VI	1	7	8						
4201954	Advanced Building Construction & Services I	1	2	3				300	300	11
4201955	Urban Studies I	2	2	4				150	150	4
4201956	Research In Architecture II	2	2	4			100		100	3
4201957	Elective III	1	2	3			50		50	2
4201958	Quantity Surveying & Specification Writing I	1	2	3			50		50	2
4201959	Professional Practice	2	2	4	30	70			100	3
		2	1	3	30	70			100	3
		10	18	28					850	28
4201967	Audit Course									

FOURTH YEAR B.ARCH. SEMESTER VIII

Course Code	Course Title	L	S	T	Theory		Sessional and / Viva		Total Marks	Credits
					In Sem	End Sem	SS	SV		
4201960	Architectural Design VII	1	7	8						
4201961	Advanced Building Construction & Services II	1	2	3				300	300	11
4201962	Urban Studies II	2	2	4				150	150	4
4201963	Elective IV	2	2	4			100		100	3
4201964	Elective V	1	2	3			50		50	2
4201965	Quantity Surveying & Specification Writing II	1	2	3			50		50	2
4201965	Quantity Surveying & Specification Writing II	2	2	4	30	70			100	3
4201966	Project Management	2	1	3	30	70			100	3
		10	18	28					850	28
4201968	Audit Course									

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FOURTH YEAR B.ARCH. SEM. VIII

Code	Subject	Teaching Scheme Periods/Week		Examination Scheme				Total Marks	Credits
		Lecture	Studio	In Semester	Sessional	Oral	End Semester		
4201562	Design VIII	3	9		200	50		250	8
4201563	Advanced Building Technology and Services II	3	4		150	50		200	5
4201564	Professional Practice II	1	2	30			70	100	2
4201565	Urban Studies II	1	2		50			50	2
4201566	Research in Architecture II	1	2		50			50	2
4201567	Quantity Surveying and Estimation II	1	2	30			70	100	2
4201568	Specification Writing II	1	2	30			70	100	2
4201569	Elective III	1	1		50			50	1
		12	24					900	24

FIFTH YEAR B.ARCH. SEM. IX

Code	Subject	Teaching Scheme Periods/Week		Examination Scheme				Total Marks	Credits
		Lecture	Studio	In Semester	Sessional	Oral	End Semester		
5201570	Practical Training	--	--	--	150	50	--	200	8
		--						200	8

FIFTH YEAR B.ARCH. SEM. X

Code	Subject	Teaching Scheme Periods/Week		Examination Scheme				Total Marks	Credits
		Lecture	Studio	In Semester	Sessional	Oral	End Semester		
5201571	Architectural Design Project	4	16	--	350	100	--	450	12
5201572	Elective IV	1	2		50			50	2
		5	18					500	14

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SAVITRIBAI PHULE PUNE UNIVERSITY

COURSE STRUCTURE FIVE YEAR DEGREE COURSE IN ARCHITECTURE [B.ARCH.]

TO BE IMPLEMENTED FROM 2015-16

BOARD OF STUDIES IN ARCHITECTURE
FACULTY OF ENGINEERING

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RECOMMENDED READINGS :

1. Ching Francis D.K.: Architectural Graphics
2. Kelsey W. E.: Geometrical & Building Drawing
3. Leslie Martin: Architectural graphics:
4. B. James: Essential of Drafting
5. H. Joseph and Morris: Practical plane and solid geometry
6. Gill Robert: Rendering with pen and ink
7. Burden Ernest: Architectural Delineation



HISTORY OF ARCHITECTURE AND CULTURE I			
Subject Code 1201906 V[SS]			
Teaching Scheme		Examination Scheme	
Total Contact Hours per week= (lectures=1, Studio=2, Total=3)		Sessional [CIA 25+EA 25] Viva	50 NIL
		In-semester exam	NIL
		End Semester exam	NIL
		Total Marks	50
		Total Credits	02

Course Objectives:

1. To introduce students to the developments in architecture through history as a result of the social, political, and geographical contexts.
2. To introduce students to the developments in architecture and its meaning, in the Indian sub-continent until 12th century AD with reference to development of typologies, forms, building techniques and features.
3. To gain an integrated understanding of settlements, landscape, and architecture as a manifestation of culture and geography.

Course Outline:

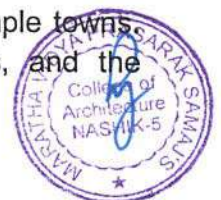
Unit 1: Architecture of the ancient River Valley Civilizations: Nile, Tigris and Euphrates, Indus.

Unit 2: Introduction to tribal and nomadic architecture of India.

Unit 3: Architecture of the Buddhist faith including development of stupas, chaityas, and viharas including rock cut architecture.

Unit 4: Architecture of the early Hindu temples, rock cut architecture of the Hindus. Architecture during the Maurya, Gupta, and Chalukya period. Architecture including temples, forts, step-wells, palaces, etc. of Northern India including architecture in Gujarat, Orissa, Madhya Pradesh, and Rajasthan.

Unit 5: Architecture of Southern India including development of temples and temple towns. Architecture under the Pallavas, Cholas, Pandyas, Nayaks, Hoysalas, and the Vijaynagar kingdom.



COMMUNICATION SKILLS			
Subject Code 1201907 [SS]			
Teaching Scheme		Examination Scheme	
Total Contact Hours per week= (lectures=2, Studio=1, Total=3)		Sessional [CIA 25+ EA 25]	50
		In-semester exam	NIL
		End Semester exam	NIL
		Total Marks	50
		Total Credits	2

Communication Skills

Objectives: To enhance skills required for effective communication in Architectural education and practice.

Course Content

- Unit 1:** Introduction to the various modes of communication and their significance.
- Unit 2:** **Written communication:** Paraphrasing, Grammar and punctuation. Developing vocabulary pertaining to architecture and design through reading. Introduction to technical writing and forms of writing in architecture discipline such as site visit report, letters, tour reports, appraisals, email etc.. Expressing ideas and concepts through words.
- Unit 2:** **Verbal communication:** Presenting an idea/ thought, debate, group discussion. And **Nonverbal aspects of communication** such as body language, posture, stance etc.
- Unit 3:** **Graphical communication:** Analytical diagrams, info graphics, flow charts, mind maps, posters, logo design.
- Unit 4:** Use of **Digital tools for communication:** Basics of Word based, numerical based software, and visual presentation techniques such as photography, videography etc.

Sessional work: Minimum 6 assignments to cover the aspects mentioned above. Assignments may be tied up with other subjects in the syllabus, wherever relevant. Assignments to be framed focusing on the profession of architecture.

OUTCOME : At the end of the course the student should be able to communicate fluently in English language and also use tools of communication such as written and graphical for effective communication.

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SEMESTER II

ARCHITECTURAL DESIGN I			
Subject Code 1201909 [SV]			
Teaching Scheme		Examination Scheme	
Total Contact Hours per week= (lectures=1, Studio=6, Total=7)		Sessional [CIA100+EA100]	200
		Viva [INT 25+ EXT 25]	50
		In-semester exam	NIL
		End Semester exam	NIL
		Total Marks	250
	Total Credits	10	

COURSE OBJECTIVES:

- To introduce design as a process of decision making.
- To introduce to the aspects of decision making such as anthropometry, climate, form, function, structure and material.
- To understand experiential quality of space.
- To comprehensively understand the role of socio cultural and geographical factors in shaping of rural settlements and architecture.

COURSE CONTENT:

Unit 1 : Study and analysis of small scale built spaces with respect to its context, comfort, function, anthropometrical data and layout

Unit 2 : Designing of single activity space like a seating area in public space, kiosks, play area, entrance gate etc. demonstrating the application of the design principles and communicated effectively through two and three-dimensional hand drawings, sketches and models.

Unit 3 : Study and analysis of a rural settlement and architecture with respect to lifestyle, climate & social structure etc.


Unit 4 : Designing in the context of the studied settlement.

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

- Assignments focusing on each of the four units above and to be presented in various mediums like doodles, sketches, diagrams etc in addition to the architectural drawings and models.

OUTCOME :

The student would be able to analyze simple spaces, identify factors affecting their design and be able to design a simple space for human use.

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- Students should be able to communicate various ideas through Architectural Graphic representations including building plans and sections (drafting and sketching).

RECOMMENDED READINGS :

1. Ching Francis D.K.: Architectural Graphics
2. Kelsey W. E.: Geometrical & Building Drawing
3. Leslie Martin: Architectural graphics:
4. B. James: Essential of Drafting
5. H. Joseph and Morris: Practical plane and solid geometry
6. Gill Robert: Rendering with pen and ink
7. Burden Ernest: Architectural Delineation

HISTORY OF ARCHITECTURE AND CULTURE II			
Subject Code 1201914 [SS]			
Teaching Scheme		Examination Scheme	
Total Contact Hours per week= (lectures=1, Studio=2, Total=3)		Sessional [CIA25+EA25]	50
		Viva	NIL
		In-semester exam	NIL
		End Semester exam	NIL
		Total Marks	50
		Total Credits	02

Course Objectives:

1. To introduce students to the developments in architecture of the Indian sub-continent after 12th century AD as a result of the social, political, and geographical contexts.
2. To study the development of architecture with specific reference to form, technology, and ornament.
3. To gain an integrated understanding of settlements, landscape, and architecture as a manifestation of culture.

Course Outline:

Unit 1: Islamic principles of architectural form, ornament, and meaning. Early Islamic architecture and its evolution and development. Architecture under the Delhi Sultanate-Slave, Khalji, Tughlaq, Sayyid, and Lodhi dynasties.

Unit 2: Islamic architecture in Gujarat, Bengal, Malwa.

Unit 3: Mughal architecture and urbanism.

Unit 4: Post- Mughal architecture of India till 19th Cent. AD.

Unit 5: Development of architecture in the Deccan since the 12th AD.

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FUNDAMENTALS OF ARCHITECTURE			
Subject Code 1201915 [SS]			
Teaching Scheme		Examination Scheme	
Total Contact Hours per week= (lectures=2, Studio=1, Total=3)		Sessional [CIA25+EA25]	50
		In-semester exam	NIL
		End Semester exam	NIL
		Total Marks	50
		Total Credits	2

COURSE OBJECTIVES

To introduce the students to the field of architecture ,its scope and fundamentals

COURSE OUTLINE :

Unit 1 : Introduction to the profession of Architecture and its distinguishing characteristics with respect to other professions.

Unit 2 : Scope of architecture as a discipline

Unit 3 : Fundamentals of architecture -function , structure ,culture and environment and their integration into the architectural form

Unit 4 : Factors affecting architectural design- site, context , function, circulation, structural system, materials ,sustainability and aesthetics.

Unit 5 : Concept of Shelter and introduction to various building typologies and their design concerns

Unit 6: Scope and significance of subjects in architectural curriculum.

SESSIONAL WORK :

A Study journal and tutorial covering all the above mentioned units.
Appraisal report of any one building typology.

RECOMMENDED READINGS :

1. Structure in Architecture – Heller Robert and SalvadoriMario
2. Design Fundamentals in Architecture –Pramar
3. Architecture : Form, Space and order – Francis D. K.Ching

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ANNEXURE A : AUDIT COURSES

The student can opt for one audit course in a semester. A student can opt for a particular course from the list below only once and cannot repeat the same course. The courses may be offered based upon the availability of resources in a college. The method of conduct of course could be based on lectures, site visits, small projects, online sources etc. and can be devised by individual colleges. The course outline given is only suggestive and colleges can expand or modify it for enrichment of the course.

FIRST YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
Sr. No.	Code	Title	Brief Course Outline
1	A	Crafts	Introduction to crafts across the world through history. Types of Indian crafts. Study of any one craft of India.
2	B	Creative Writing	Writing as an art. Fictional and non fictional writing. Poetry, short stories, playwriting. Famous Indian writers, poets and play wrights and their works.
3	C	Performing Arts	Introduction to performing arts across the world through history. Types of Indian performing arts. Introduction to Natya-Shastra. Classical, folk, traditional performing arts. Dance, Music, Drama, Cinema.
SECOND YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
4	D	Foreign Language	Basic introduction to German or Japanese language or a language which a college may choose to offer – syllables, pronunciations, words, simple sentences, grammar.
5	E	Cyber security	Introduction to cyber crime. Types of cyber crimes. Do and don'ts while using computers, smart phones, internet. Security measures to protect from crime. Crime detection mechanism and legislation.
6	F	Yoga	Introduction to Yoga. Benefits of Yoga. Types of yogasanas.
THIRD YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
7	G	Basics of Accounting and Book keeping	Introduction to accounting and various terminologies. Maintaining books of account. Debit and credit.
8	H	Electrical Maintenance	Basic electrical gadgets in home and offices. Introduction to problems related to electricity supply in home environments. Precautions while handling electrical gadgets and wiring. Mechanism of protection from electrical hazards.
9	I	Culinary Art and Practices	Introduction to the basic need of food. Geographical and cultural factors affecting food. Various cuisines and culinary arts across the world. Social, health, dietary, aspects of cuisines. Food cultures in modern times. Places of food.
FOURTH YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
10	J	Civics	Constitution of India. Indian democracy. Citizenship and Rights and responsibilities of citizens. Legislative framework.
11	K	Right to Information	Right to Information Act in India. Its need, scope and significance. Use of right to information. Responsibilities of using RTI. Limitations of using RTI. Case studies and legal precedents of using RTI.
12	L	Sign Language	Introduction to need and significance of inclusive social environment. Communication with the persons who have hearing and speech disabilities. Learning sign language.

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Savitribai Phule Pune University, Pune
For All faculties

**2 credit Compulsory course for all the First Year students in All
Faculties**

Democracy, Election and Governance

Objectives:

1. To introduce the students meaning of democracy and the role of the governance
2. To help them understand the various approaches to the study of democracy and governance

Module 1 Democracy- Foundation and Dimensions

- a. Constitution of India
- b. Evolution of Democracy- Different Models
- c. Dimensions of Democracy- Social, Economic, and Political

Module 2 Decentralization

- a. Indian tradition of decentralization
- b. History of panchayat Raj institution in the lost independence period
- c. 73rd and 74th amendments
- d. Challenges of caste, gender, class, democracy and ethnicity

Module 3 Governance

- a. Meaning and concepts
- b. Government and governance
- c. Inclusion and exclusion

References:

1. Banerjee-Dube, I. (2014). *A history of modern India*. Cambridge University Press.
2. Basu, D. D. (1982). *Introduction to the Constitution of India*. Prentice Hall of India.
3. Bhargava, R. (2008). *Political theory: An introduction*. Pearson Education India.

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Architectural Design II		
Course Code	2201917[SV]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week (lectures=1 Studio=6, Total = 7)	Sessional [CIA 100 + EA 100]	200
	Viva [Int 25 + Ext 25]	50
	In semester exam	NIL
	End Semester exam	NIL
	Total Marks	250
Total Credits	10	

COURSE OBJECTIVE:

To understand Architectural Design as a process generating design brief and taking design decisions based on the following aspects:

- **Socio-Cultural Aspects:** To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.
- **Aesthetics:** To understand the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions, volume, texture, light and shadows, etc.) and formal characteristics. (profile, base, corner, termination).
- **Anthropometry & Function:** To address functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity, essential adjacencies of spaces, ease and efficiency of circulation, light, ventilation, user-space relationship, vertical connections)
- **Climate:** To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.
- **Building Material and Construction Technology:** To study relevance of various building materials to a project, to get introduced to various expressions of a building material, to introduce a student to the construction technologies relevant to the building materials chosen, to understand the scope and limitations of a building technique to achieve the desired form and space.
- **Building Services:** To understand the spatial and structural implications of basic services involved in building design.
- **Site :** To understand the site and its context, both immediate and wider, in order to enable students to take decisions of zoning, circulation within site, distribution of built and open spaces, activity relationships and adjacencies, and views.
- **Universal Design:** To understand the concept and principles of universal design.
- **Precedent Studies:** To introduce the students to learn from case, referral, live studies - process of observation, analysis, documentation and deriving inferences.

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3. Numerical on Design of Cantilever Slab resting on a Beam (Beam Torsion in theory only)
4. Numerical on Design of Small Slabs like Toilet Sunken Slabs with Inverted Beams, Passage Slabs, Chajjas with Minimum Depth, Minimum Area of Steel with minimum/ maximum standards of Spacing.

Unit 5: Design of Beams (L.S.M for Flexure and Shear):

1. Numerical on Design of Simple Supported R.C.C Beams including Transfer of Load from Slab to Beam for one way slab only,
2. Theory only for Detailing in for a Beam supporting a Cantilever Porch

Unit 6: Design of Short R.C.C. Columns (L.S.M for Compression):

1. Definition of Short R.C.C. Columns. Various I.S.Provisions for Compression Members.Numerical on Design of Short R.C.C. Columns including Transfer of Load from Beam to Column

Course Outcome:At the end of semester student develops

1. The understanding of the concepts of Fixity, Continuity and Torque
2. The Skills to Design small spanned Wooden Beams
3. The Skills to Design Small Spanned R.C.C Structure w.r.t Slabs, Beams and Columns and use it for his B.C.M and W.D. subjects

Reference Books

1. Design of R.C.C. Structures by H.J.Shah
2. Design of R.C.C. Structures by Punmia and A.K.Jain
3. Design of Reinforced Concrete Structures by N.Krishnaraju
4. R.C.C Theory and Design by Dr. V.L.Shah and Dr.S.R.Karve
5. Strength of Materials by A.P.Dongre
6. Design and Analysis of Steel Structures by V.N.Vazirani. M.M.Ratwani and Vineet Kumar (For Wooden Structures Unit 2b)

Computer Aided Drawing and Graphics			
Subject Code		2201921[SS]	
Teaching Scheme		Examination Scheme	
Total Contact Periods per week (lectures=1, Studio=3)	04	Sessional [CIA 25 + EA 25]	50
		In semester exam	
		End Semester exam	
		TotalMarks	50
		Total Credits	02

COURSE OBJECTIVES:

- To enable the students to communicate an architectural idea / proposal in a legible and effective manner through various architectural presentations and rendering techniques.
- To enable the students to generate simple architectural drawings using **Computer Aided Drawing**
- To enable the students to express their design ideas through various sketching techniques

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COURSE OUTLINE:

Unit 1 Graphics:

- Introduction to various mediums for architectural presentations in various drawing formats (minimum two mediums)
- It is recommended to work on presentation drawings for any Architectural design project. A set of drawing shall include rendering of Plans, Elevations, Sections with internal and external perspective views.

Unit 2 Computer Aided Drawing:

- Introduction to basics of Computer Aided Drawing with basic commands for Drawing, sufficient to construct simple geometrical shapes and 3D objects.
- Advance commands in CAD such as Setting Drawing parameters, Layer controls, Hatching, Model and paper space settings etc.
- Drafting single building from Semester II Design on CAD.

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

Sessional work should be planned to cover all the units mentioned in course outline with thrust on skill development, accuracy and understanding of the topics.

Unit 1	Demonstration of presentation techniques in various drawing formats (minimum two mediums) to include external perspective and internal perspective of students' own architectural design.	2 assignments [hand drawn]
Unit 2	CAD drawings (Plan, Section/s Elevation/s) with layers, hatch and dimensions from Semester II Design project	2 assignments
	CAD Drawings of orthographic solid objects studied in Semester II	2 assignments

OUTCOME :

- Students should be able to comprehend and express nuances of graphic language through various presentation techniques and methods learnt.
- Students should be able to communicate various ideas through architectural graphic representations (drafting and sketching).

RECOMMENDED READING:

Burden, E. E. (1971). *Architectural delineation: a photographic approach to presentation*. McGraw-Hill Companies.
Holmes, J. M. (1954). *Applied perspective;: The theory and application of perspective for architects, painters, and draughtsmen*. s.l.:s.n
Capelle, F. W. (1969). *Professional perspective drawing for architects and engineers*. s.l.:s.n
Schaarwachter, G. (1967). *Perspective for the Architect*. Thames and Hudson.
Sha Publishing Co. Ltd.; Interior perspective in Architectural Design- Japan Graphics
Japan Publishing Co: Modern Architectural Rendering best 180
Japan Publishing Co: Perspective Drawings of Modern Architecture
Japan Publishing Co: Air brushing in rendering
Shankar Mulik: Perspective and Sciography

HISTORY OF ARCHITECTURE AND CULTURE III

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Course Code	2201922[SS]		
Teaching Scheme	Examination Scheme		
Total Contact Hours per week= (lectures=1, Studio=2, Total=3)	Sessional [CIA 25+EA 25]	50	
	Viva	NIL	
	In-semester exam	NIL	
	End Semester exam	NIL	
	Total Marks	50	
	Total Credits	02	

Course Objectives:

1. To understand the development of European architecture through the historical period till 17th century AD.
2. To understand the relationship of religion and society with architecture
3. To understand the drivers of change, revival, and evolution of architecture

Course Outline:

Unit 1: Greek architecture including Greek temples, domestic architecture, public architecture, city planning, and the Acropolis.

Unit 2: Roman architecture including domestic architecture, public architecture, architecture of the forums, urban planning, structural innovations, forms, materials and techniques of construction.

Unit 3: Early Christian architecture including adaptation of Roman models, early church prototypes, Byzantine architecture

Unit 4: Early medieval manors, monasteries, Romanesque churches

Unit 5: Gothic architecture and developments therein with reference to church plans, structural techniques, and ornamentation, Gothic churches and cathedrals

Unit 6: Renaissance and resultant architecture including works of Andrea Palladio, Michelangelo, Brunelleschi. Works of Sir Christopher Wren and Inigo Jones. Post-Renaissance and Baroque architecture

Sessional Work:

- Minimum 25 representative buildings of the periods under study should be represented in Plans, sections and views- of various buildings discussed in the above units.
- One measured drawing and digital documentation of any site/ building / or part/features of the building related to the course content studied.. This can be undertaken as group work with identifiable individual contribution.
- One tutorial.

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Course Specific Outcomes:

1. An understanding of architecture as a product shaped by various factors like religion and society.
2. An understanding of the formal, structural, and stylistic aspects of architectural development.
3. An understanding of the factors that bring about the processes of change in architectural manifestations and its meanings.

Recommended Readings:

- Anderson, Christy. Renaissance Architecture. Oxford University Press, 2013.
- Ching, Francis D K, Mark Jarzombek, Vikramaditya Prakash. A Global History of Architecture. John Wiley and Sons, 2011.
- Fletcher, Sir Banister and Dan Cruickshank. Sir Banister Fletcher's A History of Architecture On The Comparative Method. Architectural Press, 1996.
- Frankl, Paul. Gothic Architecture. Yale University Press, 2001.
- Lawrence, A W. Greek Architecture. Yale University Press, 1957.
- Summerson, John. The Classical Language of Architecture. Thames and Hudson, 1980.
- Ward-Perkins, J B. Roman Imperial Architecture. Yale University Press, 1992.

Building Services I		
Course Code	2201923 [P] & 2201924 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week (lectures=2 Studio=2, Total =4)	Sessional [CIA 25 + EA 25]	50
	In semester exam	30
	End Semester exam	70
	Total Marks	150
	Total Credits	03

COURSE OBJECTIVES:

To make students understand the Plumbing scope in the MEP services integration. To introduce students to following Plumbing Services in low, medium and high rise buildings and inculcate them the integration of services required in architectural design.

This term aims at following services:

- Systems for hot and cold water supply in a building premises
- Systems for Sewage, Sullage, Storm water & and its disposal within or from building premises.

COURSE OUTLINE:

Introduction to sourcing, storage, and distribution of hot and cold water in building premises including the study of all necessary components involved and their installation.

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RECOMMENDED READING

- NBC 2016 Vol 2, Part 9, Sections (1, 2, 3)
- Handbook on Water supply and Drainage - BIS SP 35 1987
- Building Services Handbook - Fred Hall & Roger Greeno
- Sanitation, Drainage and Water Supply - Mitchell.
- IPC 2018 (International Plumbing Code)
- Plumbing – Design & Practise – S G Deolalikar
- Environment and Services - Peter Burberry.

Climatology		
Course Code	2201925 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week (lectures=1 Studio=2, Total = 3)	Sessional [CIA 25 + EA 25]	50
	In semester exam	
	End Semester exam	
	Total Marks	50
	Total Credits	02

COURSE OBJECTIVES:

To understand climate as a determinant of architectural design and to enable the students to evolve climate responsive design.

COURSE OUTLINE

Unit I:

1. Understanding the Earth-Sun relation and context of what shapes climate.
2. Elements of climate and understanding climate at different scales ie, global, regional, macro and micro.

Unit II:

1. Global Climate classification
2. Climatic zones of India and its classifications

Unit III:

1. Introduction to passive design strategies at various scales ie urban, building and building component scale.

Unit IV:

1. Introduction to concept of Thermal Comfort in buildings.

Unit V:

1. Introduction to various tools like sun path, bioclimatic chart, site analysis matrix etc that are used to study sun movement, wind and comfort in buildings.



Architectural Design III		
Course Code	2201926 [SV]	
TeachingScheme	ExaminationScheme	
TotalContact Hoursperweek (lectures=1 Studio=6, Total = 7)	Sessional [CIA 100 + EA 100] Viva [Int 25 + Ext 25]	200 50
	In semester exam	NIL
	End Semester exam	NIL
	TotalMarks	250
	Total Credits	10

COURSE OBJECTIVE:

To understand Architectural Design as a process of generating design brief and taking design decisions based on the following aspects:

- **Socio-Cultural Aspects:** To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.
- **Aesthetics:** To understand the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions, volume, texture, light and shadows, etc.) and formal characteristics. (profile, base, corner, termination).
- **Anthropometry & Function:** To address functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity, essential adjacencies of spaces, ease and efficiency of circulation, light, ventilation, user-space relationship, vertical connections)
- **Climate:** To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.
- **Building Material and Construction Technology:** To study relevance of various building materials to a project, to get introduced to various expressions of a building material, to introduce a student to the construction technologies relevant to the building materials chosen, to understand the scope and limitations of a building technique to achieve the desired form and space.
- **Building Services:** To understand the spatial and structural implications of basic services involved in building design.
- **Site :** To understand the site and its context, both immediate and wider, in order to enable students to take decisions of zoning, circulation within site, distribution of built and open spaces, activity relationships and adjacencies, and views.
- **Universal Design:** To understand the concept and principles of universal design.
- **Precedent Studies:** To introduce the students to learn from case, referral, live studies - process of observation, analysis, documentation and deriving inferences.

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Environmental Science		
Course Code	2201930 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week (lectures=1 Studio=2, Total = 3)	Sessional [CIA 25 + EA 25]	50
	In semester exam	-
	End Semester exam	-
	Total Marks	50
	Total Credits	02

COURSE OBJECTIVES:

Basic introduction to Multidisciplinary nature of environmental studies with focus on

- Natural Resources
- Eco Systems
- Biodiversity and its conservation
- Environmental Pollution
- Environment Legislation and Social aspects of environment
- Environment friendly buildings

COURSE CONTENT:

Unit I -Natural Resources-Land, water, forest, energy and food

Unit II -Concept of Eco Systems with structure and functions

- Biochemical cycles
- Different ecosystems such as forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystems (ponds, lakes, streams, rivers, estuaries, oceans)

Unit III -Biodiversity

- Value of biodiversity: consumptive, productive use, social, ethical and aesthetic
- Treats to biodiversity and conservation of biodiversity(in-situ and ex-situ)

Unit IV - Environmental Pollution

- Causes, effects and control measures of air pollution, water pollution, soil pollution, marine pollution noise pollution, thermal pollution and nuclear hazards

Unit IV -Environment Legislation and Social aspects of environment



- Basic Introduction to Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and Control of Pollution) Act, Wildlife Protection Act and Forest Conservation Act
- Environment and human health, human rights and value education for environmental awareness
- Basic introduction to Environment clearance for construction projects
- Brief introduction to the concept of “green buildings” and green building rating systems.

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

- Journal on each unit with basic concept, definitions and case studies
- Seminar/essay on any one current environmental issue and its interconnectedness with architecture/development

OUTCOME:

Students should be able to grasp the interdisciplinary nature of environment science and its interdependence on development and society. They should be able to think holistically about environment when taking architectural design decisions


RECOMMENDED READINGS:

1. Textbook for Environmental Studies for undergraduate courses of all branches of higher education, ErachBharucha for University Grants Commission
2. Objective Environmental Science, B.B.Singh
3. Fundamentals of Environmental Studies ,MahuaBasu and S.Xavier
4. Environment and Development, 1st Edition, Basic Principles, Human Activities, and Environmental Implications, Editors: Stavros PouloupoulosVassilisInglezakis

HISTORY OF ARCHITECTURE AND CULTURE IV			
Course Code		2201931 [SS]	
Teaching Scheme		Examination Scheme	
Total Contact Hours per week= (lectures=1, Studio=2, Total=3)	Sessional [CIA 25+EA 25] Viva		50NIL
	In-semester exam		NIL
	End Semester exam		NIL
	Total Marks		50
	Total Credits		02

Course Objectives:

1. To introduce students to the developments in architecture of the post-medieval Western World as a result of the cultural, political, and economic contexts.

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- Basics Lighting Design Ed. by Bielefeld, Bert
- Daylight in Architecture-Benjamin Evans
- Lighting in Buildings-HapkinsenH.D.Kajr
- Lighting in Architectural Design -Derek Philip

SITE SURVEY AND ANALYSIS			
Course Code		2201934 [SS]	
Teaching Scheme		Examination Scheme	
Total Contact Periods per week (lectures=1, Studio=3, total=4)		Sessional [CIA 25 + EA 25]	50
			nil
		In-semester exam	nil
		End Semester exam	nil
		Total Marks	50
	Total Credits	2	

COURSE OBJECTIVES:

- To introduce students to the various factors related to Site Survey and Analysis relevant to Architectural Site Planning
- To enable the students to get conversant with locating the object positions in horizontal and vertical plane
- To prepare and interpret survey drawings.
- To develop understanding of contours and grading for Site development
- To analyze physical, socio-cultural and contextual parameters of the site enabling Site planning

COURSE OUTLINE:

- **Unit 1. Linear Measurements** Measurements in horizontal plane, survey stations, survey lines open and closed traverse, locating objects by chaining and offsetting, direct and indirect ranging, locating field boundaries and working out area of field, measuring distances with chain, tapes, ODM's ,EDM's, introduction to Total Station, survey accessories, measurements along sloping ground. Chain Surveying: Base line, tie lines, check lines, Understanding of land demarcation drawings.
- **Unit 2. Directional and Angular Measurements** Magnetic and true meridian, Magnetic and true bearings, use of bearings, use of prismatic compass, calculation of included angles, Fore and back Bearings, declination plotting and adjustment of closed traverse, Uses of Transit Theodolite. Measuring horizontal and vertical angles, calculation height of buildings, use of Theodolite as tachometer, tacheometric tables

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- **Unit 3. Levelling** Dumpy level, auto and tilting level, principle lines of levelling instrument, axis of telescope, axis of bubble tube, line of collimation, vertical axis recording by collimation plane, method and rise-fall method, B.S./I.S./F.S, change point, level surface, horizontal surface, datum, Reduced Level/ elevation of a point, Bench Marks, GTS, PBM/ABM/TBM. Temporary Adjustments.
- **Unit 4. Plane Table Surveys** Accessories used in plane tabling, methods of locating objects, methods of table orientation, Advantages and disadvantages. Use of Planimeter: Area of zero circle, calculating area of irregular shape figures.
- **Unit 5. Contours** Plotting the contours and profiles, interpolation of contours, contour interval, Characteristics of contours, Profile levelling: Understanding gradient, cut and fill for desired ground level, direct and indirect methods of contouring, block contour surveys
- **Unit 6. Site Analysis and Synthesis** Understanding of Natural and Manmade aspects (such as microclimate, topography, hydrology and vegetation), physical and socio-cultural context of the site. Site Analysis of the above parameters, Site Synthesis and Site Suitability

SESSIONAL WORK:

- 1) Calculation of area of field (Chain and cross staff survey)
- 2) Compass Survey.
- 3) Plane Table Survey.
- 4) Block Contour Survey.
- 6) Slope Analysis and Profile Levelling.
- 7) Site Analysis and Synthesis (Associated with Design Project)

COURSE OUTCOME

- At the end of the course students would be able to comprehend the site characteristics, reading and interpreting survey drawings, understanding equipment and methods of surveying leveling.

REFERENCE BOOKS:

- 1) Basak, N.N, *Surveying and Levelling*, McGraw Hill Education (India) New Delhi, 1994
- 2) Kanetkar, T.P, Kulkarni, S.V, *Surveying and Levelling*, Pune Vidyarthi Griha Prakashan, 2014
- 3) Lynch, K, *Site Planning*, Cambridge: The MIT Press, 1962



ANNEXURE A : AUDIT COURSES

The student can opt for one audit course in a semester. A student can opt for a particular course from the list below only once and cannot repeat the same course. The courses may be offered based upon the availability of resources in a college. The method of conduct of course could be based on lectures, site visits, small projects, online sources etc. and can be devised by individual colleges. The course outline given is only suggestive and colleges can expand or modify it for enrichment of the course.

FIRST YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
Sr. No.	Code	Title	Brief Course Outline
1	A	Crafts	Introduction to crafts across the world through history. Types of Indian crafts. Study of any one craft of India.
2	B	Creative Writing	Writing as an art. Fictional and non fictional writing. Poetry, short stories, playwriting. Famous Indian writers, poets and play wrights and their works.
3	C	Performing Arts	Introduction to performing arts across the world through history. Types of Indian performing arts. Introduction to Natya-Shastra. Classical, folk, traditional performing arts. Dance, Music, Drama, Cinema.
SECOND YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
4	D	Foreign Language	Basic introduction to German or Japanese language or a language which a college may choose to offer – syllables, pronunciations, words, simple sentences, grammar.
5	E	Cyber security	Introduction to cyber crime. Types of cyber crimes. Do and don'ts while using computers, smart phones, internet. Security measures to protect from crime. Crime detection mechanism and legislation.
6	F	Yoga	Introduction to Yoga. Benefits of Yoga. Types of yogasanas.
THIRD YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
7	G	Basics of Accounting and Book keeping	Introduction to accounting and various terminologies. Maintaining books of account. Debit and credit.
8	H	Electrical Maintenance	Basic electrical gadgets in home and offices. Introduction to problems related to electricity supply in home environments. Precautions while handling electrical gadgets and wiring. Mechanism of protection from electrical hazards.
9	I	Culinary Art and Practices	Introduction to the basic need of food. Geographical and cultural factors affecting food. Various cuisines and culinary arts across the world. Social, health, dietary, aspects of cuisines. Food cultures in modern times. Places of food.
FOURTH YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
10	J	Civics	Constitution of India. Indian democracy. Citizenship and Rights and responsibilities of citizens. Legislative framework.
11	K	Right to Information	Right to Information Act in India. Its need, scope and significance. Use of right to information. Responsibilities of using RTI. Limitations of using RTI. Case studies and legal precedents of using RTI.
12	L	Sign Language	Introduction to need and significance of inclusive social environment. Communication with the persons who have hearing and speech disabilities. Learning sign language.



Architectural Design IV		
Course Code	3201935 [SV]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week (lectures=1 Studio=6, Total = 7)	Sessional [CIA 100 + EA 100] Viva [Int 25 + Ext 25]	200 50
	In semester exam	NIL
	End Semester exam	NIL
	Total Marks	250
	Total Credits	10

COURSE OBJECTIVE:

To understand Architectural Design as a process of generating design brief and taking design decisions based on the following aspects:

- **Socio-Cultural Aspects:** To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.
- **Aesthetics:** To understand the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions, volume, texture, light and shadows, etc.) and formal characteristics. (profile, base, corner, termination).
- **Anthropometry & Function:** To address functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity, essential adjacencies of spaces, ease and efficiency of circulation, light, ventilation, user-space relationship, vertical connections)
- **Climate:** To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.
- **Building Material and Construction Technology:** To study relevance of various building materials to a project, to get introduced to various expressions of a building material, to introduce a student to the construction technologies relevant to the building materials chosen, to understand the scope and limitations of a building technique to achieve the desired form and space.
- **Building Services:** To understand the spatial and structural implications of basic services involved in building design.
- **Site :** To understand the site and its context, both immediate and wider, in order to enable students to take decisions of zoning, circulation within site, distribution of built and open spaces, activity relationships and adjacencies, and views.
- **Universal Design:** To understand the concept and principles of universal design.
- **Precedent Studies:** To introduce the students to learn from case, referral, live studies - process of observation, analysis, documentation and deriving inferences.

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LANDSCAPE ARCHITECTURE		
Course Code	3201939 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week (lectures=1 Studio=3, Total =4)	Sessional [CIA 50 + EA 50]	100
	In semester exam	
	End Semester exam	
	Total Marks	100
	Total Credits	03

COURSE OBJECTIVES:

- To introduce the students to Landscape Architecture and its scope.
- To understand the elements and principles of landscape design and role of landscape elements in design of outdoor environments on the site.
- To understand the Intent and content of designed landscapes.
- To develop understanding of site analysis and site planning and integrated design of open and built spaces.
- Creating awareness about using Landscape design as a tool to address environmental concerns in Architecture.

COURSE OUTLINE:

- **Unit 1.** Introduction to Landscape Architecture and its scope ,elements(natural and manmade) and their application in achieving functional, aesthetic, environmental and cultural goals.
- **Unit 2.** Principles and approaches in Landscape Design. Illustrations can be from contemporary as well as historic landscapes for understanding various approaches of design.
- **Unit 3.** Study of Hard landscape (civil work) details with respect to materials and construction techniques..
- **Unit 4.** Study of Softscape (plant material), their characteristics and contribution in terms of creating and imparting character to outdoor spaces.
- **Unit 5** Introduction to basics of Site planning and process of site planning.

SESSIONAL WORK:

- Minimum two assignments to expose the students to landscape elements, their application, principles of design and approaches of design.
- Short duration projects such as eskees to allow students to explore the palette of landscape elements in open space creation and design. – Minimum 2.

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- One long duration site planning and landscape design project preferably the third year architectural design project. The outcome shall be landscape design drawings, concept generation, site studies, analysis along with constructional details and planting concepts.

REFERENCE BOOKS

- Mcharg, I, *Design with Nature*. John Wiley and co. 1978.
- Jellicoe, G and Jellicoe, S, *The Landscape of Man*, London: Thames and Hudson, 1991.
- Simonds, J. O, *Landscape Architecture: The Shaping of Man's Natural Environment*, N Y: McGraw Hill Book Co. Inc. 1961.
- Lynch, K, *Site Planning*, Cambridge: The MIT Press, 1962.
- Shaheer, M, Wahi Dua, G and Pal A (editors), *Landscape Architecture In India, A Reader: LA, Journal of Landscape Architecture*, 2013.
- Lyall, S, *Designing The New Landscape*: UK: Thames and Hudson, 1998.
- Dee, C, *Form And Fabric In Landscape Architecture: A Visual Introduction*, UK: Spon Press, 2001.
- Eckbo, G, *Urban Landscape Design*, N Y: McGraw hill co. 1961.
- Laurie, M, *An Introduction to Landscape Architecture*, N Y: American Elsevier Pub. Co. Inc. 1975
- Rutledge, A J. *A Visual Approach to Park Design*. New York: John Wiley and Sons, 1985.
- Randhawa, M S, *Flowering Trees*, New Delhi: National Book Trust, 1998.
- Bose, T K and Choudhary, K, *Tropical Garden Plants in Colour*, Horticulture and Allied Publishers, 1991.
- Krishen, P. *Trees of Delhi: A Field Guide*, Penguin India, 2006.
- Mukherjee, P, *Trees of India (WWF Natures Guide)*, Oxford, 2008.
- Sahni, K C, *The Book of Indian Trees (Bombay Natural History Society)*, Oxford, 1998.
- Krishna, N and Amrithalingam, M, *Sacred Plants of India*, Penguin Books Limited, 2014.
- Motloch, J. L, *Introduction to Landscape Design*, US: John Wiley and Sons, 2001.
- Dines, N and Harris, C, *Timesavers Standards for Landscape Architecture*, McGraw Hill Education, 1998.
- Reid, G, L, *Landscape Graphics*, Watson-Guptill, 2002.
- Botkin, D. B and Keller, E. A, *Environmental Science: Earth As a Living Planet*, N Y: John Wiley And Co. 1995.
- Grosholz, E, *The Poetics of Landscape Architecture*, University of Pennsylvania Press, 2010.

ELECTIVE I [CONTEMPORARY ARCHITECTURE]			
Course Code		3201940 [SS]	
Teaching Scheme		Examination Scheme	
Total Contact Hours per week= (lectures=1, Studio=2, Total=3)		Sessional [CIA 50+EA 50]	100
		In-semester exam	NIL
		End Semester exam	NIL
		Total Marks	50
		Total Credits	02

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Course Objectives:

- To analyze the contemporary trends/approaches in architectural production in terms of design, practices, its perception, appreciation and critical discourses.
- To critically reflect and comment on contemporary architecture across the world.

Course Outline:

- Unit 1 - Post-Modernism and other movements in Architecture since the second half of 20th century.
- Unit 2 - Post 2000 CE trends in architecture, various critical discourses and current architectural issues
- Unit 3 - Analysis and critical appraisal of Architecture across the world

Sessional Work:

- Book review / article / chapter of a book in 1000 words.
- Unit 3 should be a research essay of about 1500-2000 words on a topic selected by the student and accompanied by an oral presentation of 15 minutes duration and discussion.

Students should be encouraged to follow the formalities of writing a research essay. The submission has to be in hand written format.

Students should be assessed primarily for the identification of issues, ability to take position and development of an argument.

Course Specific Outcomes:

1. Application of the knowledge gained through the study of history of architecture to analyse contemporary architecture.
2. Development of individual view point and construction of an argument to put it across.
3. Skill of orally presenting a topic of choice, and generating a discussion.

REFERENCE BOOKS

- Buchanan, Peter. "The Big Rethink". The Architectural Review (AR), (Articles - December 2011, January to May 2012, July - September 2012, November 2012)
- Correa, Charles. A Place in the Shade: The New Landscape and Other Essays. Penguin Books India, 2010.
- Curtis, William J R. Modern Architecture since 1900. Phaidon, 2007.
- Frampton, Kenneth. Modern Architecture. Thames and Hudson, 1992.
- Hays, K. Michael. Architecture Theory since 1968 (2000). MIT Press., Oct 1997, Feb. 2000.
- Hertzberger, Herman. Lessons for Students in Architecture. 010 Publishers, 1973.
- Jencks, Charles. The New Paradigm in Architecture- The Language of Post-Modern Architecture. Yale University Press, 2002.
- Leach, Neil. Anaesthetics of Architecture, MIT Press, 1999
- Mehrotra, Rahul. Architecture in India: Since 1990. Pictor Publishing, 2007.
- Pallasma, Juhani. The Eyes of the Skin: Architecture and the Senses. Academy Press, 2 edition, 2005
- Smith, Koryden H. Introducing Architectural Theory. Routledge, 2012
- Unwin, Simon. Analysing Architecture. Routledge, 2002.
- Venturi, Robert. Complexity and Contradiction in Architecture. MOMA, 1966.
- Wigley, Mark. The Architecture of Deconstruction- Derrida's Haunt. MIT Press, 1993.

Building Services III

Course Code

3201941 [P] & 3201942 [SS]

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TeachingScheme	ExaminationScheme	
TotalContact Hoursperweek (lectures=2 Studio=1, Total =3)	Sessional [CIA 25 + EA 25]	50
	In semester exam	30
	End Semester exam	70
	TotalMarks	150
	Total Credits	03

COURSE OBJECTIVES

- To comprehend building services as an integral part of architectural design process
- To obtain knowledge of technical and design aspects of natural ventilation, heating, cooling and HVAC

COURSE OUTLINE

- Principles of working of natural ventilation, heating, cooling and HVAC systems, components, materials and provisions in architectural design
- Functional and aesthetical aspects of building services coordination in architectural design

TEACHING PLAN

Unit I: Natural ventilation

- 1.1 Conditions of human thermal comfort
- 1.2 Factors affecting natural ventilation
- 1.3 Strategies to effect natural ventilation

Unit II: Mechanical ventilation

- 2.1 Systems of mechanical ventilation
- 2.2 Components of mechanical ventilation systems
- 2.3 Mechanical ventilation - Schematic design
- 2.4 Introduction to Psychometric charts

Unit III: Heating and cooling

- 3.1 Passive heating and cooling techniques
- 3.2 Low energy mechanical cooling techniques

Unit IV: Air-conditioning - 1

- 4.1 Principles of air-conditioning systems
- 4.2 Components of air-conditioning systems

Unit V: Air-conditioning - 2

- 5.1 Types of air-conditioning systems

Unit VI: Air-conditioning - 3

- 6.1 Onsite case study of air-conditioning system
- 6.2 Air-conditioning and ducting layout – Schematic calculations and design for a space / part of a building.

SESSIONAL WORK

Tutorials for Units I, II, III, IV and V (50% marks)

Onsite case study report for 6.1 (25% marks)

Schematic air-conditioning calculations and ducting layout for 6.2 (25% marks)



RECOMMENDED READING

- National Building Code of India 2016
- Air Conditioning Principles and Systems – Edward G Pita
- Environmental Science - B J Smith, G M Phillips, M Sweeney
- Building Service Handbook – Fred Hall and Roger Greeno
- Refrigeration and Air Conditioning – Arora Ramesh Chandra
- Fundamentals of Air Conditioning Systems – Billy C Langley
- Basic Refrigeration and Air Conditioning – P N Ananthanarayanan

WORKING DRAWING I			
Course Code		3201943 [SS]	
Teaching Scheme		Examination Scheme	
Total Contact Periods per week (lectures=1, Studio=3, total=4)		Sessional [CIA 50 + EA 50]	100
		In-semester exam	nil
		End Semester exam	nil
		Total Marks	100
		Total Credits	2

COURSE OBJECTIVES

- To enable the students to prepare working drawings of an architectural project and imbibe the significance of working drawings from the point of view of execution of the work on site and as important component of tender documents.

COURSE CONTENT

- Introduction to the concept of working drawings and their importance.
- Graphical presentation of all the components of a building along with dimensioning and annotations.
- Understand and apply IS Codes and internationally accepted norms / conventions / methods of preparing a working drawing along with tabulation of schedules of materials, finishes and hardware.

SESSIONAL WORK

- One working drawing of an architectural design project having load bearing structure with minimum 100 sq. m. carpet area. Manually drafted drawings [minimum 6] sufficiently explaining the building from the execution point of view.
- At least two details related to the design such as doors / windows / railings / kitchen otah etc. to suitable scale. (1 drawing)

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Architectural DesignV		
Course Code	3201944[SV]+3201945[P]	
TeachingScheme	ExaminationScheme	
TotalContact Hoursperweek (lectures=2 Studio=5, Total = 7)	Sessional [CIA 100 + EA 100] Viva [Int 25 + Ext 25]	200 50
	In semester exam	NIL
	End Semester exam	100
	TotalMarks	350
	Total Credits	10

COURSE OBJECTIVE:

To understand Architectural Design as a process of generating design brief and taking design decisions based on the following aspects:

- **Socio-Cultural Aspects:** To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.
- **Aesthetics:** To understand the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions, volume, texture, light and shadows, etc.) and formal characteristics. (profile, base, corner, termination).
- **Anthropometry & Function:** To address functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity, essential adjacencies of spaces, ease and efficiency of circulation, light, ventilation, user-space relationship, vertical connections)
- **Climate:** To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.
- **Building Material and Construction Technology:** To study relevance of various building materials to a project, to get introduced to various expressions of a building material, to introduce a student to the construction technologies relevant to the building materials chosen, to understand the scope and limitations of a building technique to achieve the desired form and space.
- **Building Services:** To understand the spatial and structural implications of basic services involved in building design.
- **Site :** To understand the site and its context, both immediate and wider, in order to enable students to take decisions of zoning, circulation within site, distribution of built and open spaces, activity relationships and adjacencies, and views.
- **Universal Design:** To understand the concept and principles of universal design.
- **Precedent Studies:** To introduce the students to learn from case, referral, live studies - process of observation, analysis, documentation and deriving inferences.

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COURSE OUTLINE:

10. Designing of progressively complex spaces and buildings in terms of area, a specific community, typology, function etc, with emphasis on either scale or complexity of the project, or both.
11. Project could be evolved based on the current needs of the city and / or context responding to aspects like heritage and conservation, landscape and ecology, image and identity, etc.
12. Development of building design program from not only client or user's requirements but also in response to context specific factors like socio-economic, socio-cultural, environmental etc.
13. Introduction to develop a design philosophy/narrative as a thought process in design.
14. Analysing activities around the buildings within a campus and understand the same in context to relation of built form and open spaces, elements of landscape, pedestrian and vehicular movement, their segregation, managing sloping sites, contours, etc.
15. In case of multiple buildings (existing and/or proposed) to be accommodated within a site, analyse and understand their relationship with each other in context to establish continuity of form, construction, materials, design theme, climate, etc. and the same should reflect in the drawings and models.
16. Integrating functions, structure and services in a building with relevant structural system and its resultant effect on visual form / character of building
17. To understand various issues and aspects of sustainability, earthquake resistance, construction, universal accessibility, etc. and study how these could be integrated in the architectural design process.
18. To study a location in urban context preferably in a different socio-geographic setting other than the Institute (not mandatory), and document the study done in the tour in the form of a report with emphasis on relevant aspects like climate, social structure, culture, architectural typology, construction technology, urban fabric, economy, etc or any other issues which need to be considered for envisaging a design project in totality.

SESSIONAL WORK

Assessment Criteria: Major project should have 80% weightage and 20% weightage should be given to the minor project.

A] Major project:

System oriented project with emphasis on structural system, vertical and horizontal circulation, services like HVAC, electrical, fire-fighting systems, parking, rules & regulations etc. The project could also be evolved based on the need of the city with socio-economic context, historical context, ecological concerns, etc.

Deliverables:

- i. Portfolio A - Architectural drawings at an appropriate scale preferably 1:200/1:100. And model to suitable scale.
- ii. Portfolio B - Process drawings / tracings (Recommended)
- iii. Study models of various stage (Recommended)

B] Minor project:



SESSIONAL WORK

- Tutorials for Units I to VI (50% marks)
- Reverberation time calculations and recommendations for acoustical treatment(25% marks)
- Design for provisions for fire prevention, life safety and fire protection (25% marks)

RECOMMENDED READING

- National Building Code of India 2016
- Architectural Acoustics - M. David Egan
- Architectural Acoustics: Principles and Design - Madan Mehta, James Allison Johnson, Jorge Rocafort
- Auditorium Acoustics and Architectural Design - Michael Barron
- Building Services Handbook- Fred Hall, Roger Greeno.

WORKING DRAWING II		
Course Code	3201952 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Periods per week (lectures=1, Studio=3, total=4)	Sessional [CIA 50 + EA 50]	100
	In-semester exam	nil
	End Semester exam	nil
	Total Marks	100
	Total Credits	2

COURSE OBJECTIVES:

- To Introduce idea of Design Development and detailing and its relevance in converting 'concept design' to working drawing and hence the realization of design on site.
- To imbibe further the importance of working drawings as an essential tool for effective site execution and execution of a building contract.
- To expose to the standard methods, conventions, drawing annotations including International standards, IS codes, its application in working drawing set with material and component and schedules.

COURSE OUTLINE:

- Lecture demonstration/s to elaborate on standard practices, conventions, graphic annotations, sequencing and cross reference systems of a good working drawing set.

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ANNEXURE A : AUDIT COURSES

The student can opt for one audit course in a semester. A student can opt for a particular course from the list below only once and cannot repeat the same course. The courses may be offered based upon the availability of resources in a college. The method of conduct of course could be based on lectures, site visits, small projects, online sources etc. and can be devised by individual colleges. The course outline given is only suggestive and colleges can expand or modify it for enrichment of the course.

FIRST YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
Sr. No.	Code	Title	Brief Course Outline
1	A	Crafts	Introduction to crafts across the world through history. Types of Indian crafts. Study of any one craft of India.
2	B	Creative Writing	Writing as an art. Fictional and non fictional writing. Poetry, short stories, playwriting. Famous Indian writers, poets and play wrights and their works.
3	C	Performing Arts	Introduction to performing arts across the world through history. Types of Indian performing arts. Introduction to Natya-Shastra. Classical, folk, traditional performing arts. Dance, Music, Drama, Cinema.
SECOND YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
4	D	Foreign Language	Basic introduction to German or Japanese language or a language which a college may choose to offer – syllables, pronunciations, words, simple sentences, grammar.
5	E	Cyber security	Introduction to cyber crime. Types of cyber crimes. Do and don'ts while using computers, smart phones, internet. Security measures to protect from crime. Crime detection mechanism and legislation.
6	F	Yoga	Introduction to Yoga. Benefits of Yoga. Types of yogasanas.
THIRD YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
7	G	Basics of Accounting and Book keeping	Introduction to accounting and various terminologies. Maintaining books of account. Debit and credit.
8	H	Electrical Maintenance	Basic electrical gadgets in home and offices. Introduction to problems related to electricity supply in home environments. Precautions while handling electrical gadgets and wiring. Mechanism of protection from electrical hazards.
9	I	Culinary Art and Practices	Introduction to the basic need of food. Geographical and cultural factors affecting food. Various cuisines and culinary arts across the world. Social, health, dietary, aspects of cuisines. Food cultures in modern times. Places of food.
FOURTH YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
10	J	Civics	Constitution of India. Indian democracy. Citizenship and Rights and responsibilities of citizens. Legislative framework.
11	K	Right to Information	Right to Information Act in India. Its need, scope and significance. Use of right to information. Responsibilities of using RTI. Limitations of using RTI. Case studies and legal precedents of using RTI.
12	L	Sign Language	Introduction to need and significance of inclusive social environment. Communication with the persons who have hearing and speech disabilities. Learning sign language.

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SEMESTER VII

ARCHITECTURAL DESIGN VI		
Course Code	4201953 [SV]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 8 (Lectures: 1, Studio: 7)	Sessional [CIA125+EA125]	250
	Viva [INT 25+ EXT 25]	50
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	300
Total Credits	11	

COURSE OBJECTIVES:

To develop to Develop Architectural programming of the entire project for **housing** including the process of generating a design brief, developing design iterations based on issues involved and taking design decisions based on the following aspects

- **Precedent Studies:**
To analyse cases, referral, live studies through the process of observation, survey and documentation and evaluate them for gaining a design approach.
- **Socio-Cultural Aspects:**
To evaluate socio-cultural aspects like lifestyle, cultural beliefs and practices, traditions, etc. and their effect on housing design.
- **Economic aspects:**
To understand the economic concerns with respect to the economic hierarchy of society and the corresponding architectural responses and solutions.
- **Site Context and Analysis:**
To understand and apply the information of site, its location, topography, scale, context – both- immediate and wider, and land-use and understand the potentials, challenges, future requirements of the site to take decisions about design brief development in terms of numbers and types of tenements, ground coverage, building height, density as well as decisions about zoning, circulation within site, distribution of built and open spaces, activity relationships and adjacencies, and views.
- **House Typology:**
To evaluate various housing typologies and their suitability to the project at hand. To explore various adaptations of a typology, clustering possibilities, and resultant built form so as to create a housing design using the relevant explorations.

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- **Traffic and vehicular movement:**
To understand and apply ideas about networking, hierarchy of connectivity, pedestrian and vehicular movement within the site and surrounding larger area.
- **Building Material and Construction Technology:**
To study and analyse the relevance of various building materials and technologies to a project, various expressions of a building material and technology relevant to the building and to understand the scope and limitations of a building technique to achieve the desired form and space.
- **Building Services:**
To understand and apply the spatial and structural implications of basic and advanced services involved in building design.
- **Aesthetics:**
Along with the challenges of physical issues, students are also expected to create a spatial and visual language for their project.
- **Rules and Regulations:**
To understand and apply legislative aspects with reference to the housing context and setting of the project site (Building byelaws, GDGR, GRZ, EPA, ECBC, GRIHA etc.)



COURSE OUTLINE:

1. To design complex housing spaces and buildings in terms of area, user group, typology, function etc, with emphasis on scale or complexity of the project.
2. To understand and analyse housing in urban context, preferably in a different socio-cultural-economic setting than the institute and document the study in the form of a report with emphasis on relevant aspects like density, climate, social structure, culture, architectural typology, construction technology, urban fabric, economy, services, traffic movement, etc. or any other issues which need to be considered for envisaging a design project in totality.
3. To develop a building design program from not only client's or user's requirements but also in response to context specific factors like socio-economic, socio-cultural, environmental etc.
4. To understand the development of a design philosophy/narrative as a thought process in design.
5. To evolve projects that may be based on the current needs of the city and / or context responding to aspects like heritage and conservation, landscape and ecology, image, and identity, etc.
6. To analyse activities around the buildings within the housing projects/ neighbourhoods in relation with built form and open spaces, elements of landscape, pedestrian and vehicular movement and segregation, etc.
7. To analyse and understand the relationship between various typologies of units, their combinations, clustering, and resultant buildings with respect to privacy.



socio-cultural needs, built-form configuration, structural/ service efficiency, density, topography, climate, etc.

8. To design buildings integrating functions, structural system and services and understand its resultant effect on visual form / architectural character of building.
9. To understand various issues and aspects of sustainability, earthquake resistant construction, universal accessibility, etc. and understand how these may be integrated in the architectural design process.
10. To apply relevant legislative provisions (Building byelaws, GDCR, CRZ, EPA, ECBC, GRIHA etc.) to the design project.

SESSIONAL WORK

- **Unit 1:**

Case studies and analysis of housing design typology as identified by the institute and the presentation of its findings.

- **Unit 2:**

A well resolved and communicated architectural design for a multi-family, multi-typology residential development of 100 to 200 tenements evolving out of aspects like mixed-use development, development of communities, addressing issues of social stratification v/s inclusiveness, identification of target group/ end-user's requirements, relation of location/ land values on defining the housing product, typological innovations, context, green initiatives, etc.

DELIVERABLES

The design must be communicated through architectural drawing and graphics, two and three-dimensional sketches, models/ visualisation, and narrative. Emphasis shall be given to the preparation of self-explanatory drawings, as in an Architectural Competition.

It is recommended that:

- 3- or 4-unit types/ sizes be explored in the project.
- The student be able to demonstrate his/her understanding about building technology and spatial provision for services
- The student should be able to demonstrate his/her design response to climate, and an understanding of suitable Landscape ideas.

RECOMMENDED READINGS:

1. The Architecture of Rasem Badran: Narratives on People and Place. James Steele. Thames and Hudson. London, 2005.
2. The Housing Design Handbook: A Guide to Good Practice. David Levitt, Jo McCafferty. Routledge. London, 2019.
3. Atkins: Architecture and Urban Design. Atkins. Images Publishing Group. 2011.



- **Unit 3: Long span structures**

Study of long span steel structures [indoor stadia, railway / metro stations, shopping malls, sky walks, Multi-functional building etc] to understand structural behaviour.

Assignment would be in report form comprising of Case study and sketches of construction details.

OR

- **Unit 3: Industrial structures**

Design and construction of medium scale industrial structures with reference to all architectural, constructional details.

Assignment will be on the same. [Minimum two A1 drawings sheets]

RECOMMENDED READINGS:

1. Tricomi, Ernest. ABC of Air-conditioning. 1970
2. Smith, Philips & Sweeney. Environmental Science
3. Daniels, Klaus. Advanced Building Systems – A Technical Guide for Architects and Engineers. Birkhauser, Boston. 2003
4. National Building Code of India ,5. PEB manufacturer's details Advanced Building Construction by MACKEY Stadia by John Geraint

URBAN STUDIES I		
Course Code	4201955 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 4 (Lectures: 2, Studio :2)	Sessional (internal)	50
	Sessional (external)	50
	Viva (internal)	NIL
	Viva (external)	NIL
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	100
	Total Credits	03

COURSE OBJECTIVES:

- To enable students to understand the urban context of an Architectural Project beyond the site and understand the implications of various factors (such as traffic-transportation, socio economics, urban landscape, spatial and visual aspects etc.) influencing the development of an urban area.
- To introduce the students to urban studies and relevance of its learning in Architecture profession; various theories and concepts, facilitating the undertaking of planning and design of large-scale land development.

COURSE OUTLINE:

- **Unit 1**

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The meaning of town planning, urban planning, urban design and context of architectural project beyond site; Principles and theories of Urban Planning and Urban Design and relevance in the context of globalization.

- **Unit 2**

Various aspects of urban land. understand the implications of various factors such as traffic-transportation, socio- economic, urban landscape etc. influencing the development, rationale of urban regulatory controls.

- **Unit 3**

Urban residential developments such as neighbourhood planning, high-rise housing, slum rehabilitation, public housing, town planning schemes etc.

- **Unit 4**

Affordable housing: introduction and concepts; Contemporary problems of settlements, towns, cities impact of unplanned growth.

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

Handwritten journal based upon the theory syllabus as above.

ASSIGNMENTS:

1. Subdivision of land for residential development (approx. area 4Ha) –Individual submission (40 marks).
2. Study of housing typologies as mentioned in course outline, study of the same from urban planning and design perspective. - Case study in a group of maximum 5 students (30 Marks).
3. Two Tutorials based upon course outline (15marks each total 30 marks).

OUTCOME:

Students will develop a basic understanding of urban planning, urban design, studying urban planning principles and application of the same. Students will know about housing types, concerns & issues related to it and strategies to resolve issues.

RECOMMENDED READINGS:

1. Gallion, Arthur. The Urban Pattern. New Delhi: CBS Publishers and Distributors, 2003
2. Bacon, Edmund. Design of Cities London: Thames and Hudson, 1974
3. Paddison, Ronan. Handbook of Urban Studies. London: sage Publications, 2001
4. Correa, Charles. Housing and Urbanisation. London: Thames and Hudson, 2000.
5. Mohanty, Swati. Slum in India. New Delhi: APH Publishing Corp., 2005.
6. Jagdale, Rohit. Slum Rehabilitation Schemes in Mumbai. University of Texas 2014
7. Coordinates (is an exclusive monthly magazine on positioning, navigation, associated technologies, and applications.



8. Specification Writing for Architects & Engineers, By Donald A. Watson
9. Specification Writing for Architects & Surveyors, By Arthur J. Wills
10. Estimating, Costing, Specification & Valuation, By M. Chakraborty
11. Reference drawings from offices of MEP consultants

PROFESSIONAL PRACTICE		
Course Code	4201959 [THEORY]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 3 (Lectures: 2, Studio :1)	Sessional Viva	NIL
	In-semester exam	30
	End Semester exam	70
	Total Marks	100
	Total Credits	03

COURSE OBJECTIVE:

- To acquaint the student with the role & stature of the Architect in the society and understand duties, liabilities, responsibilities & ethics as a professional.
- To acquaint the student with the scope & avenues of Professional Architectural services and the demands & mode of Professional Practice field.
- To familiarize & prepare the student with the adequate knowledge of an Architect's office administration, documentation, banking, taxation & other procedures of office along with the Laws applicable to Architects.
- To familiarize the student with the Council of Architecture, Architect's Act, Architectural competitions & other allied professional organizations.

COURSE CONTENT:

- **Unit 1**
Introduction to the nature, scope and avenues of service and **professional practice as an Architect**, Role of an Architect as a **technical professional**. Illustrate the changing nature of the Architects.
- **Unit 2:**
The Architects Act 1972, The Council of Architecture, its composition, legal status, and mandate for to Registration of Architects and for monitoring the Academics and Profession of Architecture, Rules and Regulations of the Council regarding Professional Liabilities & Code of Conduct. Introduction to Architectural Competitions, its Pros and Cons, Rules and Regulations as per Council of Architecture
- **Unit 3**
Avenues of professional service and mode & nature of professional practice - Types of Organizations, Scope of comprehensive Services, Scale of Fees, and Site supervision, Documentation, Introduction to Office Management, & International practice.
- **Unit 4**

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Taxation (Income tax, Goods & Service Tax and Professional tax), Banking, Insurance, and laws applicable to architects.

Unit 5

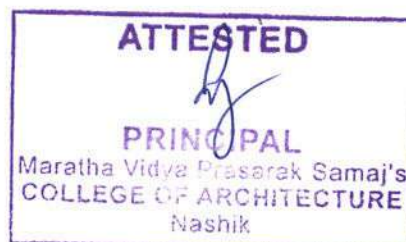
Introduction to the Role and Legal duties of Architects in Arbitration and Valuation.

Unit 6

Introduction to IIA, IIID, IUDI, ITPI, ISOLA and such professional organizations. Understanding the need for Architects to be aware, sensitive and active in Social and Civic issues in Urban context.

RECOMMENDED READINGS:

1. Latest published Handbook of Professional Document: Council of Architecture Publication
2. The Architect's Act, 1972: Govt. of India Publication
3. Professional Practice by Roshan H. Namawati
4. Professional Practice in India by Madhav G. Deobhakta
5. Architectural Practice & Procedure by Vasant S. Apte



SEMESTER VIII

ARCHITECTURAL DESIGN VII		
Course Code	4201960 [SV]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 8 (Lectures: 1, Studio: 7)	Sessional [CIA125+EA125]	250
	Viva [INT 25+ EXT 25]	50
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	300
	Total Credits	11

COURSE OBJECTIVE

To develop architectural interventions as part of a process to understand complex issues of an urban context, generating design brief and taking design decisions based on the following aspects:

- **Precedent Studies:**
To introduce the students to Urban spaces from cases, referral, live studies through the process of observation, survey and, documentation and evaluate them for gaining a design approach.
- **Socio-Cultural Aspects:**
To evaluate socio-cultural aspects like lifestyle, cultural beliefs and practices, traditions, and their effect on urban spaces and architectural design etc.
- **Site Context and Analysis:**
To understand and apply information about the site, its scale, location, topography, context- both, immediate and wider, and complexity of existing functions, and understand the potentials, challenges, and future requirements of the site to take decisions of design-brief development in terms of types of buildings in urban complexes, multiple functions, multifunctional space typologies, area requirements, as well as decisions about zoning, circulation, distribution of built and open spaces, activity relationships and adjacencies, and views.
- **Traffic and vehicular movement:**
To understand and apply ideas about networking, hierarchy of connectivity, pedestrian and vehicular movements within the masterplan and the surrounding context of site.
- **Building Material and Construction Technology:**

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To analyze and evaluate the relevance of various building materials and technologies to a project, various expressions of a building material and technology relevant to the building and to understand the scope and limitations of a building technique to achieve the desired form and space.

- **Building Services:**

To understand and apply the spatial and structural implications of basic and advanced services involved in building design.

- **Aesthetics:**

Along with the challenges of physical issues, students are also expected to create a spatial and visual language for their project.

- **Rules and Regulations:**

To understand and apply relevant legislative aspects governing building design with reference to the urban context and setting of the site (Building byelaws, GDCR, CRZ, EPA, ECBC, GRIHA etc.)

COURSE OUTLINE:

1. To design complex urban spaces and buildings (***other than housing***) in terms of area, function, specific community, typology, context etc, with emphasis on scale and / or complexity of the project.
2. To understand and analyse a location in an urban context, preferably in a different socio-cultural-economic setting than that of the institute and document the study in the form of a report with emphasis on relevant aspects like climate, social structure, culture, architectural typology, construction technology, urban fabric, economy, services, traffic movement, etc. or any other issues which need to be considered for envisaging a design project therein in totality.
3. To evolve projects that may be based on the current needs of the city and / or context responding to aspects like heritage and conservation, landscape and ecology, image and identity, etc.
4. To develop a building design program from not only client or user's requirements but also in response to context specific factors like socio-economic, socio-cultural, environmental etc.
5. To understand the development of a design philosophy/narrative as a thought process in design.
6. To analyse activities around the buildings within a complex/ campus and understand the same in context of the built form and open spaces, elements of landscape, pedestrian and vehicular movement, their segregation, managing sloping sites, contours, etc.
7. To analyse and understand the relationship between multiple (existing and/or proposed) buildings to establish continuity of form, construction, materials, design theme, climate, etc.
8. To design buildings integrating functions, structural system, and services and their resultant effect on visual form / architectural character of building.

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9. To understand various issues and aspects of sustainability, earthquake resistant construction, universal accessibility, etc. and understand how these may be integrated in the architectural design process.
10. To apply relevant legislative provisions (Building byelaws, GDCR, CRZ, EPA, ECBC, GRIHA etc.) to the design project.

SESSIONAL WORK - ONE OF THE TWO OPTIONS

PROJECT TYPE 1

- **Unit 1:**
Identification and analysis of issues related to various aspects mentioned above including mobility, networks, inclusiveness, built-form disposition, architectural character, identity, activities, community participation, etc. at an urban neighbourhood level of area (***other than housing***) @ 2-3 hectares with an aim to evolve a design brief and a design solution including a neighbourhood level master- plan and/or intervention guidelines in the context for the same.
 - The Architectural project should evolve from the study of the Area and be an outcome of issues identified, Development Plan proposals for the area if any and a subset of the overall Master Plan for the Area.
- **Unit 2:**
A well resolved and communicated architectural design of a component/s of the neighbourhood studied as mentioned in Unit 1 above, with a total carpet area of not less than 6000 sqm and not more than 20000 sqm area of Functional Space depending on context and complexity of the project.

OR

PROJECT TYPE 2

- **Unit 1:**
Study of an urban area (***other than housing***) including aspects like mobility, movement networks, built form disposition, character, identity, activities, open space networks, walkability, inclusiveness, etc. as relevant to the area selected and the design brief proposed as in Unit 2 below.
- **Unit 2:**
Development of Master Plan area of 2- 3 Ha in a group of three students maximum.
- **Unit 3:**
Development of Design proposals individually for the area of any and a subset of the overall Master Plan.
 - A well resolved and communicated architectural design for a multi-functional building complex or a specialty building of a total carpet area not less than 6000 sqm and not more than 20000 sqm in an urban context with substantial complexity addressing Issues of architectural character, identity, built form, contextuality, structural system, advanced

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- services, green initiatives, landscape integration, traffic management, etc.
- Suggested typologies may include but not limited to: Healthcare facility, Educational Institution, 5 Star Hotel, Convention Centre, Multimodal Transport Hub, shopping mall and Multiplex, Redevelopment Project etc.
 - An understanding of the project's impact on the surrounding area and vice-versa is suggested.

DELIVERABLES

The design must be communicated through architectural drawings and graphics, two and three-dimensional sketches, models/ visualization, and narrative. Emphasis shall be given to the preparation of self-explanatory drawings, Master Plan for the Area, Designing of Multiple user spaces, Imageability and Identity, Structural Details and Services as in an Architectural Competition.

RECOMMENDED READINGS:

1. All available books on Architectural Design.

ADVANCED BUILDING CONSTRUCTION AND SERVICES II		
Course Code	4201961 [SV]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 3 (Lecture: 1, Studio: 2)	Sessional (internal)	50
	Sessional (external)	50
	Viva (internal)	25
	Viva (external)	25
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	150
Total Credits	04	

COURSE OBJECTIVES:

To help students to understand advanced structural systems, materials and services required in buildings with complex and very specific requirements. Students should be able to comprehend the special requirements of high rise or multi storied and modern buildings and be able to integrate the same in design.

COURSE OUTLINE

- Unit 1: Auditoriums / Multiplex



Design and construction of Auditorium (minimum capacity 350 with provision of a balcony and projector room in case of multiplex) along with required services.

Assignment will be on preparing of drawings containing plans and sections, showing all services and constructional details [minimum four A1 drawing sheets]

- **Unit 2: Building elements & Elevation treatments**

Construction and architectural details of Building elements of design projects (previous semester/ previous year) For example—pergola, porches, atriums, façade, curtain wall, podium (with different use such as parking / landscape) etc.

Assignment will be based on preparing of drawings with complete details. [Minimum three A1 size drawing sheets].

- **Unit 3: High rise buildings.**

Introduction to construction of high-rise buildings with RCC as a material. Study of Council Norms with NBC Rules & analysis of structural system behaviour in high rise / super high-rise structures under different loading conditions.

Assignment will be in form of compiled notes and sketches.

OR

- **Unit 3: Industrial structures**

Design and construction of medium scale industrial structures with reference to all services details. Assignment will be on the same. [Minimum two A1 drawings sheets]

RECOMMENDED READINGS:

1. Tricomi, Ernest. ABC of Air-conditioning. 1970
2. Smith, Philips & Sweeney. Environmental Science
3. Daniels, Klaus. Advanced Building Systems – A Technical Guide for Architects and Engineers. Birkhauser, Boston. 2003
4. National Building Code of India
4. Advance building construction by MACKAY High Rise Buildings by Jaswant Mehta Theatres and Auditoriums by Harold Burris- Meyer & Edward Cole. Architects Working Details



URBAN STUDIES II		
Course Code	4201962 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 4 (Lectures: 2, Studio :2)	Sessional (internal)	50
	Sessional (external)	50
	Viva (internal)	NIL
	Viva (external)	NIL
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	100
Total Credits	03	

COURSE OBJECTIVES:

- To introduce the students to the process of planning and urban development and associated legislation.
- To understand the fundamental concepts and theories of urban design and apply them in their design projects.
- To introduce the students to urban economics.

COURSE OUTLINE:

- **Unit 1**
Study of planning process in detail --- (Survey, analysis, proposals and development) for various urban issues. A brief introduction to urban renewal and re-development; study and analysis of urban spaces, people centric designs etc.
- **Unit 2**
Conservation and related Urban Design controls.
- **Unit 3**
Planning and Urban Design legislation --- introduction and relevance.
Unified Building bye laws and Development Control rules of local authorities.
- **Unit 4**
Urban economics: introduction and concepts (demand and supply, housing finance, Government schemes and various bodies) etc.

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

Handwritten journal based upon the theory syllabus as above.

ASSIGNMENTS

1. Reading of Urban fabric: Study of existing town and town planning proposals for municipal council level town– (group work in a group of 5 students) (40 marks).
2. Identification of urban issues related to various aspects such as environment, society, traffic and transportation, hills and hill slopes, riverfront development.

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urban heritage conservation through primary surveys (group work in a group of 5 students) (30 marks) –

3. Two Tutorial based upon course outline (15marks each total 30 marks).

OUTCOME

Students will develop a basic understanding Planning and Urban Design legislation; studying planning process, survey, and application of the same to know about issues like urban economics, transportation.

RECOMMENDED READINGS:

1. Gallion, Arthur. The Urban Pattern. New Delhi: CBS Publishers and Distributors, 2003
2. Bacon, Edmund. Design of Cities London: Thames and Hudson, 1974
3. Paddison, Ronan. Handbook of Urban Studies. London: Sage Publications, 2001
4. Sprerriegen, Paul. Urban Design: The Architecture of Town and Cities.
5. Malabar, FL-USA Krieger Publishing Co., 1967 Lynch, Kevin. The Image of The City London: The MIT Press, 1960
6. Book of Development Control Regulations by Local Municipal Corporation (latest edition available)
7. Book of AITP Exam study material: 'Planning Law and Legislation' by ITPI New Delhi Guide to Planning Surveys including Landuse Classification: TCPO, Govt of India: 2004
8. Correa, Charles. Housing and Urbanisation. London: Thames and Hudson, 2000.
9. Howard, Ebenezer. Garden Cities of Tomorrow, 1902
10. Maharashtra Regional and Town Planning Act, 1966
11. Traffic and Transportation Planning by L.R. Kadiali
12. Coordinates (is an exclusive monthly magazine on positioning, navigation, associated technologies and applications.
13. Down to Earth (magazine edited by Sunita Narain)
14. My Liveable City (magazine co-founded by Shyam Khandekar & Shashikala Venkatraman)



QUANTITY SURVEYING & SPECIFICATION WRITING II		
Course Code	4201965 [THEORY]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 4 (Lectures: 2, Studio :2)	Sessional Viva	NIL
	In-semester exam	30
	End Semester exam	70
	Total Marks	100
	Total Credits	03

COURSE OBJECTIVES:

- To enable students in preparation of rate analysis & indent preparation along with the concepts.
- To enable students in working out quantities of various items of work for an Industrial structure
- To acquaint students with methodology of writing specifications with reference to service installations of different items of work in construction.
- To enable students in different building trades & content, checklist.

COURSE OUTLINE:

- **Unit 1: Rate Analysis**
Introduction to Analysis of Rate, Factors affecting Rate of any Item of work, Importance of Rate Analysis, Essentials of Rate Analysis. Studying and Working out rate Analysis of standard items of work based on prevailing market rates. (Minimum 20 numbers)
- **Unit 2: Building trades & checklist**
Different Building trades scope & contents. Checklist preparations for different works in constructions.
- **Unit 3: Indent of materials:**
Unit Rate, Direct Cost, Indirect Cost, Overhead Charges, Day Work, Task Work, Piece work, Indent of Material, preparation of Indent of Material of standard items of work based on prevailing market rates. (Minimum 20 numbers)
- **Unit 4: Working out quantities for Steel Structures**
Working out quantities for Industrial structure of approximately 200-300 sqm with steel Truss and sheet roofing and preparing measurement sheet and abstract for all items of work. (Including footing)
- **Unit 5: Specification for Building Services:**
 - Water Supply & Drainage,
 - Acoustics,
 - Electrification,
 - HVAC installation
- **Unit 6: Broad outline specification for miscellaneous service installations**
 - Communication systems- elevators, escalators



- Fire fighting
- Accessibility- arrangements for disabled persons

RECOMMENDED READINGS:

1. B.I.S 1200- Part-I 1992. n.d.
2. Prof. B.N. Dutta, Estimating and Costing in Civil Engineering.
3. B.S.Patil. Civil Engineering Contracts and Estimates.
4. Dr. Roshan Namavati. Professional Practice.
5. Rangawala. Estimating Costing and Valuation.
6. Indian Standard specifications
7. C.P.W.D. Specifications and schedule of rates
8. Specification Writing for Architects & Engineers, By Donald A. Watson
9. Specification Writing for Architects & Surveyors, By Arthur J. Wills
10. Estimating, Costing, Specification & Valuation, By M. Chakraborty
11. Reference drawings from offices of MEP consultants

PROJECT MANAGEMENT		
Course Code	4201966 [THEORY]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 3 (Lectures: 2, Studio :1)	Sessional Viva	NIL
	In-semester exam	30
	End Semester exam	70
	Total Marks	100
	Total Credits	03

COURSE OBJECTIVE

- Students need to understand reality of modern-day Project environment which is getting more complex and more collaborative due to ever demanding requirements of creative and unique design concepts and importance of Project Management to manage this dynamic environment
- Introducing to the students "Management Concepts "and the Role of an Architect as Project Manager in executing a project from conceptualization, design stage through the documentation and construction stage.
- This course will be an introduction to basics of Project Management framework and Knowledge areas giving glimpses on best practices to manage collaborative project environment and roles and responsibilities of various stakeholders of Project and how Project manager leads to successful project completion within cost and time and meets or exceeds project quality standards.

COURSE OUTLINE

- Unit 1: Introduction Project and Project environment



Project and Project Environment. Traditional organization structure vs modern project management structure, Importance of Project Manager & role of an Architect as a Project Manager who integrates everyone. Collaborative project environment with multiple stakeholders and need to manage. PMBOK Environment, Concept of Project- Program- Portfolio and Processes / Policies / Procedures to manage these project environments.

- **Unit 2: Project Phases and Stages**

Importance of Project Phase: Concept and Feasibility, Planning and Design, Construction and Close-out and within each phase of project role of key processes – Initiating, Planning, Execution, Control & Monitoring and Close-out. Difference between Project Management and Construction Management.

- **Unit 3: Tenders and Contracts**

Definition and Types of tenders, Systems of Tendering - Open and Invited, Process of tendering. Tenders - Pre-Qualification and Empanelment procedures - Selection of Contractors. Tender documents, Terms of Reference - Specifications - Bill of Quantities - Billing, Introduction to Contracts - Articles of Agreement and Conditions of Contract (IIA document)

- **Unit 4: Project Management Knowledge Areas Part 1**

Key concept introduction to various knowledge areas as defined in PMBOK to understand how various knowledge areas work in relationship with each other. Knowledge areas Integration management, Scope management, Schedule management, Cost management, Quality management

- **Unit 5: Project Management Knowledge Areas**

Resource management, Communication management, Risk management, Procurement management and Stakeholder management. Awareness and Introduction to Computer applications for effective Project Management.

- **Unit VI : Specialized Project Management Themes**

Importance of specialized themes in additional to knowledge areas: Project Finance management, Construction Safety management, Facilities management, Design management. Awareness and Introduction to Computer applications for effective Project Management. (not to be included for SPPU examinations)

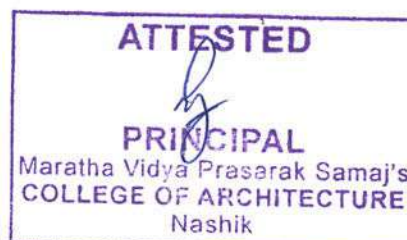
COURSE SPECIFIC OUTCOMES

After completing this course student will be exposed to basic key concepts of Project Management and its importance in managing Project. The student should be competent enough to handle and manage a small-scale project from conceptualization to completion (hand over).

Subject knowledge gain may help few of the students to pursue master's education in the field of Project Management.

RECOMMENDED READINGS:

1. PMBOK by PMI



ANNEXURE A : AUDIT COURSES

The student can opt for one audit course in a semester. A student can opt for a particular course from the list below only once and cannot repeat the same course. The courses may be offered based upon the availability of resources in a college. The method of conduct of course could be based on lectures, site visits, small projects, online sources etc. and can be devised by individual colleges. The course outline given is only suggestive and colleges can expand or modify it for enrichment of the course.

FIRST YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
Sr. No.	Code	Title	Brief Course Outline
1	A	Crafts	Introduction to crafts across the world through history. Types of Indian crafts. Study of any one craft of India.
2	B	Creative Writing	Writing as an art. Fictional and non fictional writing. Poetry, short stories, playwriting. Famous Indian writers, poets and play wrights and their works.
3	C	Performing Arts	Introduction to performing arts across the world through history. Types of Indian performing arts. Introduction to Natya-Shastra. Classical, folk, traditional performing arts. Dance, Music, Drama, Cinema.
SECOND YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
4	D	Foreign Language	Basic introduction to German or Japanese language or a language which a college may choose to offer – syllables, pronunciations, words, simple sentences, grammar.
5	E	Cyber security	Introduction to cyber crime. Types of cyber crimes. Do and don'ts while using computers, smart phones, internet. Security measures to protect from crime. Crime detection mechanism and legislation.
6	F	Yoga	Introduction to Yoga. Benefits of Yoga. Types of yogasanas.
THIRD YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
7	G	Basics of Accounting and Book keeping	Introduction to accounting and various terminologies. Maintaining books of account. Debit and credit.
8	H	Electrical Maintenance	Basic electrical gadgets in home and offices. Introduction to problems related to electricity supply in home environments. Precautions while handling electrical gadgets and wiring. Mechanism of protection from electrical hazards.
9	I	Culinary Art and Practices	Introduction to the basic need of food. Geographical and cultural factors affecting food. Various cuisines and culinary arts across the world. Social, health, dietary, aspects of cuisines. Food cultures in modern times. Places of food.
FOURTH YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
10	J	Civics	Constitution of India. Indian democracy. Citizenship and Rights and responsibilities of citizens. Legislative framework.
11	K	Right to Information	Right to Information Act in India. Its need, scope and significance. Use of right to information. Responsibilities of using RTI. Limitations of using RTI. Case studies and legal precedents of using RTI.
12	L	Sign Language	Introduction to need and significance of inclusive social environment. Communication with the persons who have hearing and speech disabilities. Learning sign language.

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Practical Training		
Subject Code	5201570 (SV)	
Teaching Scheme	Examination Scheme	
Student should work for Total 120 working days in organization where architecture or its allied disciplines are practiced under supervision of a professional who is registered with COA India.	Sessional (Internal)	75
	Sessional (External)	75
	Viva (Internal)	25
	Viva (External)	25
	In-semester exam	NIL
	End Semester exam	NIL
Total Marks	200	
Total Credits	8	

Objectives:

- To undertake practical training under the guidance of experts / professionals.
- To Learn about architect's office management and learn about the process of design, execution and management of a project.

Course outline:

- Students should work in organization where architecture or its allied disciplines are carried under professional who is registered architect with COA
- In case a student undergoes Training at a firm outside India, the professional should be registered with the professional body governing practice in that country in addition to the registration with COA India.
- Total duration of Professional Training will be 120 working days in IX sem

Submissions :

- Prepare a separate report along with formal log book & work diary.
- Student should maintain week wise work record in a diary to summarize the work done in the office, site visits, meetings with clients, agencies, interaction with principal architect. This diary should be authenticated by the architect every week.
- Professionals should issue a certificate of performance to the student with respect to the work quality, overall approach, attitude towards office work.
- Students should produce report, log book, work diary & some drawings with permission from the employer [to indicate the kind of work s/he has carried out] at the time of sessional -viva voce examination.

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Elective IV			
SubjectCode		5201572 (SS)	
TeachingScheme		ExaminationScheme	
TotalContact Periodsperweek (lectures=1, Studio=2)	3	Sessional(Internal)	25
		Sessional(External)	25
		Viva (Internal)	NIL
		Viva (External)	NIL
		In-semester exam	nil
		End Semester exam	nil
		TotalMarks	50
		Total Credits	2

COURSE OBJECTIVES:

The subject of Electives has been introduced in syllabus with specific intention of study of a particular subject of student's liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level. This will give students an opportunity to develop their skills in a subject they may opt, to make their career in future.

Architecture professionals will have to deal with more and more complex buildings as well as organizational structures to realize a project. Architects need to be introduced to "Management Concepts" if they are to manage projects right from design stage through the documentation and construction stage. Acknowledging the fact that the Architectural Practice is a team effort and understanding the necessity of management in this field, the following elective topics have been suggested.

Note: This elective will not focus on design and technology aspects of the topics offered.

COURSE OUTLINE:

Individual College may offer topics depending upon the availability of experts and resource material. The colleges will have the opportunity to focus on a particular group of topics according to the overall philosophy and mission statement of the College. The probable management elective topics are as follows:

- Project Management
- Construction Management
- Environment and Energy management
- Architectural Design Management

SESSIONAL WORK:

The faculty is expected to set out the broad contour and sub aspects (including basic principles, case studies, application in building projects etc.) of the particular elective and conduct input and demonstration interactions and define the nature of the sessional work to be done by the students.

The students are expected to present the work done in an A4 report format of 20 pages, to include summary of interactions and sessional work prescribed by the faculty with a signed certificate from the concerned



Teacher / Expert stating that the study was carried out under his /her guidance and countersigned by the Principal / Academic coordinator.

Guidelines for content for the electives

Construction Management

Human Resource Management in Construction
 Contracts and Claims Management
 Construction Materials, Stores and Inventory Control and Technology Management
 Construction Equipment Management
 Construction Quality and Safety Management
 Construction Site Administration and Control
 Introduction to Computer applications for construction management

Project Management

Soft Skills in Project Management
 Project Risk Management
 Project Cost Estimation and Cost Control
 Contracts and Claims Management
 Project Procurement and Materials Management
 Project Quality and Safety Management
 Introduction to Computer Application in Contract Management

DRAFT SYLLABUS FOR APPROVAL OF FACULTY

Environment and Energy Management

Environment and Energy Policies and Management in Indian Context
 Environment Technology Management-Water and Waste Management Technologies
 Energy Management in Buildings (Demand and Supply Management)
 Building Management Systems

Architectural Design Management

Design Management
 Drawing and Documentation Management
 Computer Applications for Design Management

Architectural Design Project			
SubjectCode		5201571 (SV)	
TeachingScheme		ExaminationScheme	
TotalContact Periodsperweek=20 (lectures=4, Studio=16)	20	Sessional(Internal)	175
		Sessional(External)	175
		Viva (Internal)	50
		Viva (External)	50
		In-semester exam	nil
		End Semester exam	nil
TotalMarks		450	
Total Credits		12	





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1.3.1

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

C) List of topics in Architectural Design Project course in B. Arch Programme which addresses cross cutting issue (AY-2022-2023)





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Criteria 1.3.1:

The institution integrates various cross-cutting issues relevant to the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum. The fifth year students are also encouraged to research on the above issues as a part of Architectural Design Project [5201571(SV) 2015 Syllabus]

Following students of Fifth year Architecture. worked on various cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability under Architectural Design Project.

Academic Year : 2022-2023

Semester : X

Architectural Design Project [5201571(SV) 2015 Syllabus]

Sr No	Thesis Topic	Name of The Student	Issue Dealt
1	Old Age Home & Orphanage: Towards a symbolic living	Agrawal Palak	Human Values
2	Training center for Blind People	Bagul Leena	Human Values
3	Elephant Rehabilitation Center at Kottur	Bagul Nihali	Human Values
4	Juvenile Correction and Rehabilitation Center	Bendkule Vrushali	Human Values
5	Multi-Speciality Hospital	Bhusal Sonali	Human Values
6	Museum for Revolution in Islam	Budhale Pranjal	Human Values
7	Utsav : Community Center in Jaipur	Chandak Shruti	Human Values
8	Shahushree: Heritage and Cultural Interpretation Center	Chavan Ankita	Human Values
9	Rama Srushti: Ramayan Interpretation Center	Chopada Bhavik	Human Values
10	NIRBHAYA, Self Development Shelter for Sexually abused survivors	Chumbale Ritu	Gender
11	Tourist Hub at Kavnai	Deore Sharyu	Environment & Sustainability
12	Vineyard Resort	Deshmukh Sakshi	Environment & Sustainability
13	NGPDA's Drug Rehabilitation and Self awareness Development Center, Goa	Dive Tishya	Human Values

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Sr No	Thesis Topic	Name of The Student	Issue Dealt
14	Nature Interpretation Center (Biodiversity Park)	Gangaputra Priyanka	Environment & Sustainability
15	Rehabilitation and De Addiction Center	Garud Vaishnavi	Human Values
16	Urban Farming Hub	Ghadvaje Nisha	Environment & Sustainability
17	Residential School	Ghate Samruddhi	Human Values
18	School for Alternate Education	Handge Vaidehi	Human Values
19	Spiritual Center	Jain Vardhaman	Human Values
20	Spiritual Dwelling (Dharamshala)	Kadam Bhairavi	Human Values
21	Co working Spaces	Kalal Nikita	Gender
22	Reclaiming Quarry as Nature Interpretation Center and Adventure club	Ramteke Sanchit	Environment & Sustainability
23	Bible College	Kamble Katki	Human Values
24	Frugal / Affordable Housing for Migrant Laborers	Kothavade Shivani	Human Values
25	Landfill to Land Use(Redevelopment of dumping Ground)	Kudekar Nishant	Environment & Sustainability
26	Center for Autism	Kulkarni Vaishnavi	Human Values
27	Agricultural Research and Tourism	Lande Kavita	Environment & Sustainability
28	Center for Non-Visual Education	Mahajan Pooja	Human Values
29	De Addiction Center	Mahajan Shruti	Human Values
30	Tribal Development Center	Maniyar Obed	Human Values
31	Mental Healing through Architecture	Manjare Pradnya	Human Values
32	School for Blind	Marathe Avinash	Human Values

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Sr No	Thesis Topic	Name of The Student	Issue Dealt
33	Eco Resort in Kerala	Nagare Payal	Environment & Sustainability
34	Center for Holistic Healing	Nimdeokar Pooja	Human Values
35	Urban Cultural Hub	Patil Aditi	Human Values
36	Police University and Training Center	Patil Manasi	Human Values
37	Heritage Hotel	Patil Nikita	Human Values
38	Adventure Resort	Patil Trupti	Human Values
39	Center for Paralysis	Pawar Abhinav	Human Values
40	Prison	Pawar Prashant	Human Values
41	Svasthya, A Wellness Resort and Healing Center	Pophale Nandini	Human Values
42	Retreat for Senior Citizens: Redefining Old Age Home	Salunke Raouu	Human Values
43	Heritage Museum at Devgiri Fort	Sonawane Abhijit	Human Values
44	Correctional Facilities (Prison Architecture)	Sonawane Akanksha	Human Values
45	Revitalisation of an Abandoned Quarry	Sood Shreya	Environment & Sustainability
46	Oceanarium	Thakare Aarti	Environment & Sustainability
47	Mandovi Riverfront Development	Thakare Rushikesh	Environment & Sustainability
48	City Museum	Upasani Simran	Human Values
49	The Spiritual and Healing Center	Zanwar Yash	Human Values

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1.3.1

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D) List of events/ Programme/ workshops / seminars etc ... organised by institute in B. Arch programme which addresses cross cutting issues (AY-2022-2023)





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Criteria 1.3.1(D)

List of events / Programs / Workshops / Seminars etc. organized by Institute in B.Arch Programme which addresses cross cutting issues in Academic year 2022-2023.

Sr No	List of events / Programs / Workshops / Seminars	Date	Issue Dealt
1	Yoga Day	21.06.2022	Human Values
2	International Tiger Day	29.07.2022	Environment & Sustainability
3	Samaj Din	19.08.2022	Human Values
4	Hindi Day	14.09.2022	Human Values
5	Sexual Harassment - Lecture by Adv. Indrayani Patani	21.10.2022	Gender
6	Female Foeticide - Lecture by Dr. Azhar Sayyad	21.01.2023	Gender
7	Ar. B.V. Doshi Prayer Meet	27.01.2023	Human Values
8	Shiv Jayanti	19.02.2023	Human Values
9	Blood Donation	28.02.2023	Human Values
10	Celebrating women Leadership Lecture by Anuda Killedar	04.03.2023	Gender
11	Celebrating women Leadership Lecture by Jui Pethe	08.03.2023	Gender
12	Celebrating women Leadership Lecture by Reena Merchant	13.03.2023	Gender
13	Urban Legislation Lecture by Dr. Surekha Vaijapurkar	12.04.2023	Professional Ethics
14	Guru Pournima	16.07.2023	Human Values

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