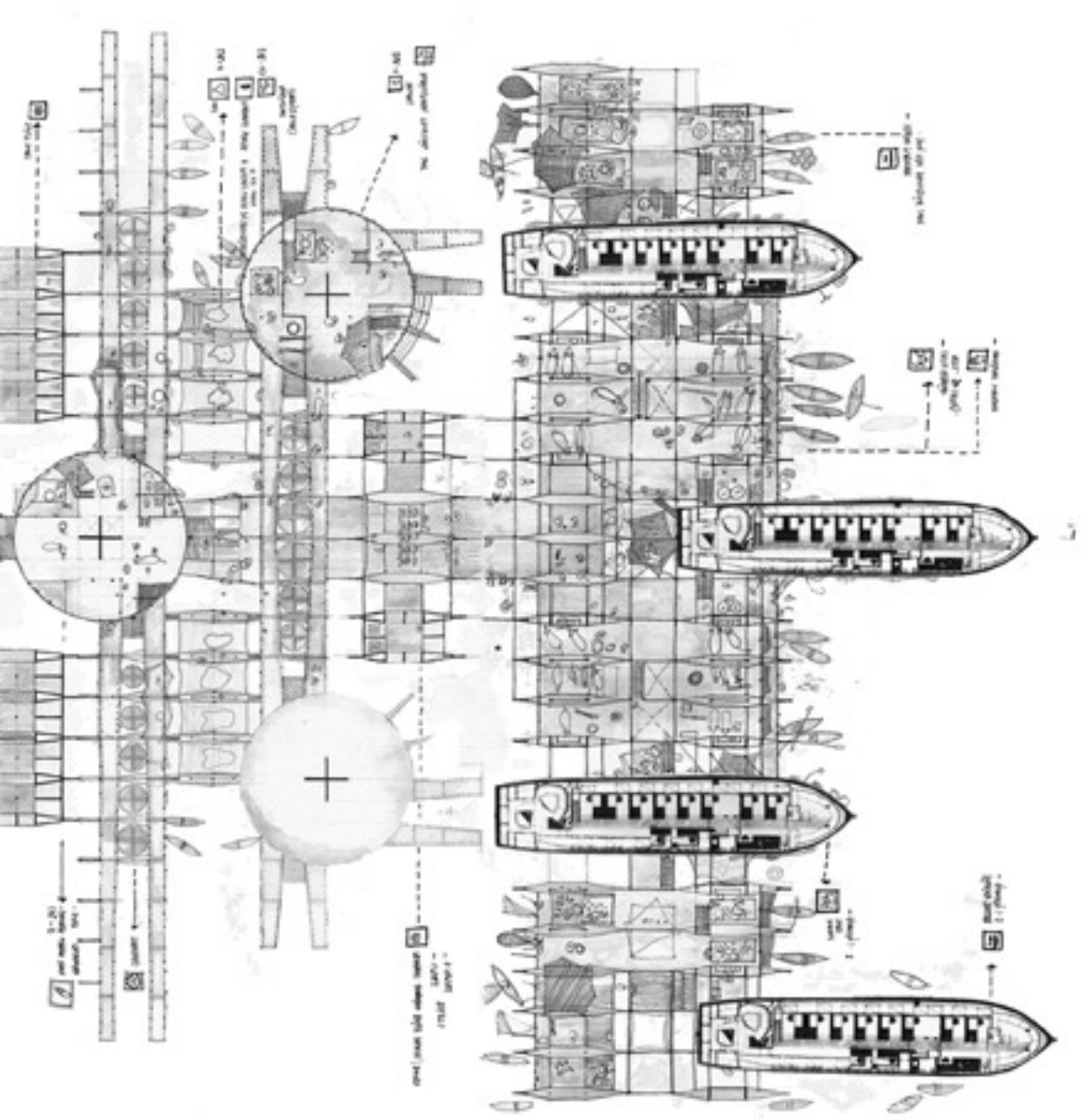
Course Catalog

Monsoon Semester 2014/15



CEPT University

Course Catalog

Monsoon Semester 2014/15

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Cover Illustration : Niket Dalal

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Services and Advance Technology
Studio
Technical Drawing and Visualization
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Workshop

CEPT UNIVERSITY

About

The Ahmedabad Education Society (AES) established the Centre for Environment Planning & Technology (CEPT) in the year 1962 with the inception of School of Architecture (SA) through grant-in-aid from Government of Gujarat. The School of Planning (SP) was established in 1972 with financial support from Government of India (MHRD), Government of Gujarat and Ford Foundation. The other schools; School of Building Science and Technology (SBST) and School of Interior Design (SID) were established in 1982 and 1991 respectively with grant-in-aid from Government of Gujarat.

Initially CEPT was established and run by Ahmedabad Education Society (AES). In the year 1994, a separate trust and a society CEPT Society was formed. CEPT is registered as a Society and Public Charitable Trust. CEPT has been registered under the Societies whether Registered Society/ Company/Others Registration Act 1860 with the Asst. Registrar of Societies, Ahmedabad Region, Ahmedabad, vide Registration No. Guj/4185/Ahmedabad dated 24 Jan 1994.

Since inception CEPT operated as an autonomous academic institution free to develop its academic programs and award its own diplomas at the end of various programs of study recognized by the State of Gujarat and the statutory regulatory body for technical courses - All India Council of Technical Education (AICTE). From 2002 - 2005, CEPT was affiliated to the Hemachandracharya North Gujarat University at Patan.

Consequently, all those students completing various programs at CEPT were awarded bachelor's and master's degrees. CEPT became a University by the Gujarat State Legislature Act of 2005 with effect from April 12, 2005. CEPT University has been recognized by the University Grants Commission under Section 2(f) of the UGC Act, 1956 in February 2007. The University is recognized as Scientific and Industrial Research Organization (SIRO) by Department of Scientific and Industrial Research (DSIR).

Pedagogy

The teaching programs at CEPT University focus on building professional capacities and therefore they are centered on 'studios' or 'labs'. Here, students engage with well designed life-like problems. Coursework, seminars and research assignments, aimed at developing conceptual and analytical abilities of students, and skill-enhancing workshops support learning in studios and labs. Students also have to enroll in travel and documentation programs and to intern in professional offices to widen their exposure.

CEPT University cherishes individual interests and abilities of its students. To enable each student to chart a unique course of study and realize his or her own individual potential,

programs mandate only three quarters of the total credits that students have to complete. Students can complete the remaining credits by choosing from the wide range of elective courses on offer at any of the five faculties of the university. The Faculties also make all attempts to ensure that even within the mandatory portion of the program, students can choose courses to suit their practice orientation.

The belief that educating professionals requires practicing professionals and academics to work closely together firmly underpins CEPT University's pedagogic philosophy. Therefore, CEPT University works as a collaborative of academics and practitioners. Practitioners adept at decision-making bring their experience to classrooms and academics impart a more thoughtful and critical approach. Teachers at CEPT University, see themselves as coaches. Their role is to support individual students in their explorations and in their capacity-building quests.

Organization Structure

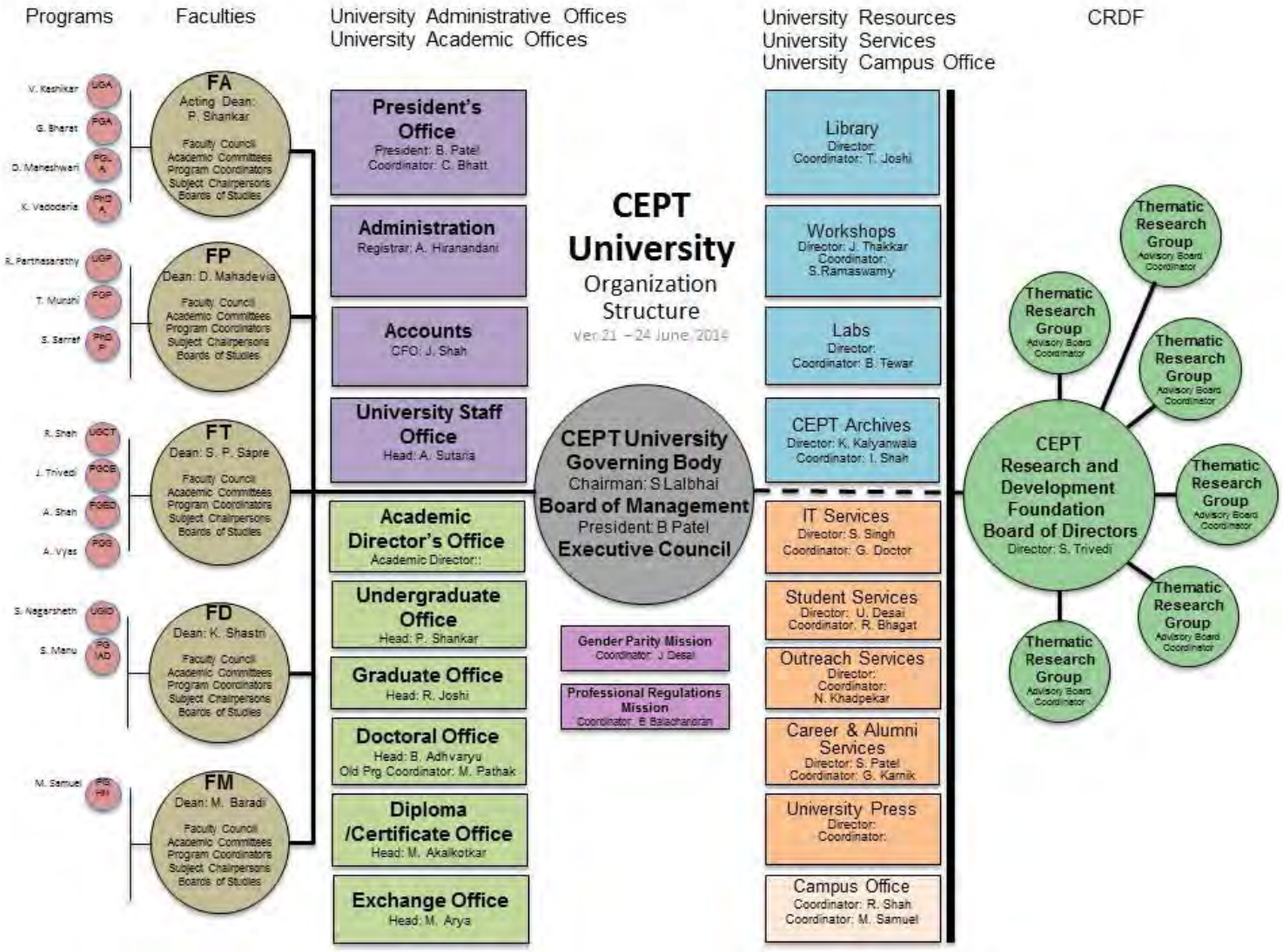
The Governing Body frames broad policy and has overarching powers over the functioning of the University. The Board of Management constitutes the Executive Council, Academic and Research Council, and, the Finance and Development Committee. It supervises functioning of the University and has powers to review all acts of the aforementioned councils and committee.

The Executive Council, the Academic and Research Council and the Finance and Development Committee manage and develop academic, research and all other programs and activities of the University. Faculties are responsible for all teaching programs at CEPT University. Faculty Councils and Boards of Studies are responsible for formulating policies pertaining to the various Faculties.

CEPT University's Academic Offices (Undergraduate Programs, Postgraduate Programs, Doctoral Programs, Diploma and Certificate Programs and Exchange Programs) are responsible for supporting and overseeing teaching programs in the various faculties.

CEPT University Resources (Library, Workshops, Labs, Archives, University Press) and the CEPT University Services (Student Services, Career Services, IT Services, Outreach Services, and Campus Services) are responsible for supporting teaching and research at the University.

The CEPT Research and Development Foundation (CRDF) is a wholly owned unit of CEPT University, registered under Sec. 25 of the Companies Act (1956). It manages CEPT University's contract, research and consulting activities. The Chairman, the President, the Director, the Deans and the Registrar are the key officers of the University.


Programs
Faculties
University Administrative Offices
University Academic Offices
University Resources
University Services
University Campus Office
CRDF
V. Kashikar
UGA
G. Bharat
PGA
D. Maheshwari
PG-A
K. Vadodaria
PhD A
FA
Acting Dean: P. Shankar
Faculty Council
Academic Committees
Program Coordinators
Subject Chairpersons
Boards of Studies
R. Parthasarathy
UGP
T. Munshi
PGP
S. Sarraf
PhD P
FP
Dean: D. Mahadevia
Faculty Council
Academic Committees
Program Coordinators
Subject Chairpersons
Boards of Studies
R. Shah
UGCT
J. Trivedi
PGCB
A. Shah
PGED
A. Vyas
PGS
FT
Dean: S. P. Sapre
Faculty Council
Academic Committees
Program Coordinators
Subject Chairpersons
Boards of Studies
S. Nagarsheth
UGID
S. Maru
PG IAD
FD
Dean: K. Shastri
Faculty Council
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Program Coordinators
Subject Chairpersons
Boards of Studies
M. Samuel
PG HH
FM
Dean: M. Baradi
Faculty Council
Academic Committees
Program Coordinators
Subject Chairpersons
Boards of Studies
President's Office
President: B. Patel
Coordinator: C. Bhatt
Administration
Registrar: A. Hiranandani
Accounts
CFO: J. Shah
University Staff Office
Head: A. Sutaria
Academic Director's Office
Academic Director::
Undergraduate Office
Head: P. Shankar
Graduate Office
Head: R. Joshi
Doctoral Office
Head: B. Adhvaryu
Old Prg Coordinator: M. Pathak
Diploma /Certificate Office
Head: M. Akalkotkar
Exchange Office
Head: M. Arya
CEPT University
Organization Structure
ver 21 – 24 June 2014
CEPT University Governing Body
Chairman: S Lalbhai
Board of Management
President: B Patel
Executive Council
Gender Parity Mission
Coordinator: J Desai
Professional Regulations Mission
Coordinator: B Balachandran
Library
Director:
Coordinator: T. Joshi
Workshops
Director: J. Thakkar
Coordinator: S.Ramaswamy
Labs
Director:
Coordinator: B. Tewar
CEPT Archives
Director: K. Kalyanwala
Coordinator: I. Shah
IT Services
Director: S. Singh
Coordinator: G. Doctor
Student Services
Director: U. Desai
Coordinator: R. Bhagat
Outreach Services
Director:
Coordinator:
N. Khadpekar
Career & Alumni Services
Director: S. Patel
Coordinator: G. Karnik
University Press
Director:
Coordinator:
Campus Office
Coordinator: R. Shah
Coordinator: M. Samuel
CEPT Research and Development Foundation
Board of Directors
Director: S. Trivedi
Thematic Research Group
Advisory Board Coordinator
Thematic Research Group
Advisory Board Coordinator
Thematic Research Group
Advisory Board Coordinator
Thematic Research Group
Advisory Board Coordinator
Thematic Research Group
Advisory Board Coordinator
Thematic Research Group
Advisory Board Coordinator

TRANSFORMING PEDAGOGY AT CEPT UNIVERSITY

Choice based Curriculum

CEPT University has adopted choice based curriculum that gives students the flexibility to choose courses across different faculties. This allows students to chart their own path during the course of their study at CEPT University. It gives them greater freedom and choice while selecting courses.

Any program of a faculty specifies only 75% of the credits by offering mandatory courses. A student is free to pick remaining 25% credits from any faculty of CEPT University in the form of elective courses.

A mandatory course of one program can be taken as elective by student of other programs. This also allows for faculty integration and ensures a multidisciplinary mix in a classroom.

Common Calendar and Time Table

All programs follow a common annual calendar and timetable to facilitate students from one to attend courses in other faculties. By following the same framework of timetable and annual calendar seamless integration of all the faculties is now possible.

Integration of Postgraduate Programs

The postgraduate programs offering different specialization in the same faculty are now integrated as one large program, wherein students are encouraged to develop specialization of their choice by combination of major and minor courses from various Areas.

This system offers students greater choice and also allows them to make various combinations of specializations.

Common Course Typology

Any course offered in CEPT University follows either of the listed typology and adheres to conditions of the same. Things like contact hours, teaching style and nature of student engagement is governed by course typology.

This is important so that students know beforehand what kind of teaching environment to expect while registering for a course in other programs.

PROGRAMS AT CEPT UNIVERSITY

PROGRAMS AT CEPT UNIVERSITY

FACULTY	PROGRAM LEVEL	PROGRAM (UG=4, PG=8)	DEGREE (UG=4, PG=11)	SPECIALIZATION/ MAJOR
FACULTY OF ARCHITECTURE	Undergraduate	Undergraduate Program in Architecture	Bachelor of Architecture	-
	Postgraduate	Postgraduate Program in Architecture	Master of Architecture	Urban Design
				History, Theory & Criticism
				Conservation
				Architectural Design
		Postgraduate Program in Landscape Architecture	Master of Landscape Architecture	-
			Master of Landscape Design	-
	Doctoral	Doctoral Program in Architecture	PhD in Architecture	-
FACULTY OF DESIGN	Undergraduate	Undergraduate Program in Interior Design	Bachelor of Interior Design	-
	Postgraduate	Postgraduate Program in Interior Architecture & Design	Master of Interior Architecture & Design	Energy Efficiency
				Craft & Technology
				History, Theory & Criticism
			International Master of Interior Architectural Design	Energy Efficiency
				Craft & Technology
				History, Theory & Criticism
FACULTY OF MANAGEMENT	Postgraduate	Postgraduate Program in Habitat Management	Master of Habitat Management	-
FACULTY OF PLANNING	Undergraduate	**Undergraduate Program in Planning (*Admission paused for 2014)***	**Bachelor of Planning**	-
	Postgraduate	Postgraduate Program in Planning	Master of Urban and Regional Planning	Land Use Planning
				Environmental Planning
				Housing
				Infrastructure Planning
				Transportation Planning
	Doctoral	Doctoral Program in Planning	PhD in Planning	-
FACULTY OF TECHNOLOGY	Undergraduate	Undergraduate Program in Construction Technology	Bachelor of Construction Technology	-
	Postgraduate	Postgraduate Program in Construction Engineering and Management	Master of Technology in Construction Engineering & Management	-
		Postgraduate Program in Engineering Design	Master of Technology in Structural Engineering Design	-
			Master of Technology in Infrastructure Engineering Design	-
		Postgraduate Program in Geomatics	Master of Technology in Geomatics	-

COURSE TYPOLOGY

COURSE TYPOLOGY

Type	Pedagogy	Purpose
Lecture	Lectures are the primary mode of teaching. Best suited for transferring information/concepts/theory. Should be supplemented by frequent tests to verify whether concepts are being understood	(1) To deliver substantial amounts of information to large numbers of student (2) To provide a summary or synthesis of information from different sources (3) To allow introduction of multiple concepts
Lecture (small)	- do-	(1) To deliver substantial amounts of information to a small numbers of student (2) To provide a summary or synthesis of information from different sources (3)To allow introduction of multiple concepts
Discussion seminar	Where discussion on pre-assigned readings or on brief lectures/presentations	(1) To facilitate discussion on a particular subject (2) expose students to various points of and (3) to teach them how to formulate and articulate arguments
Research Seminar	Introduces the students to the process of critical enquiry within a specific field or topic by way of reading other works and understanding the arguments, forming coherent connections, writing to communicate hypotheses, supported by valid arguments.	(1) To equip the students to read and understand concepts, information, experiments, field studies though research papers, essays, books, articles and other sources; (2) assist them to understand the arguments/discussion and methodology and form connections with their
Studio	Where students are confronted by life-like situations and told to define the problems and to attempt solving them. The faculty coaches students and provides them with necessary concepts and theories.	(1) To encourage individual but active learning and responsibility (2)To facilitate learning to work with group dynamics
Studio Type 2	Where students are confronted by life-like situations and told to define the problems and to attempt solving them. The faculty coaches students and provides them with necessary concepts and theories.	(1) To encourage individual but active learning and responsibility (2) To facilitate learning to work with group dynamics
Guided research (thesis)	Where faculty members coach individual students on 1) conducting research and writing up the results, 2) undertaking research for a design project and writing up the results or, 3) conducting research for proposing a development project and writing up a grant proposal.	(1) To equip students with vital research skills (2) To build capacity to develop logical and independent thought process
Workshop	Where faculty members coach students to help them develop skills in working with certain materials and technologies	(1) To encourage Interactive and hands-on learning (2) To provide sufficient time for skill building; 3)To develop practical reasoning and decision making skills
Design Workshop	Students are confronted with real life problems and they are coached to evolve construction/working drawings and/or prototypes. Fusion of workshop and studio courses.	(1) To encourage Interactive and hands-on learning (2) To provide sufficient time for skill building; 3)To develop practical reasoning and decision making skills (4) Translate design interventions into executable
Independent study	Where a student selects a topic of interest reads a set of books on that topic and writes up an annotated bibliography. The student is guided in this study by a faculty member who also supervises and approves the bibliography.	(1) To encourage students who have demonstrated ability to learn independently (2) To explore topics of personal interest within research framework
Makeup tutorial	One-to-one sessions with a faculty member for hours equal to half the credit of the original lecture course (per week).	Designed for students that have failed in a lecture course. With this course they will make up for the shortfall in understanding and will be assessed after the end of designated one-to-one sessions via a mode chosen by instructor (e.g., assignments, viva, or written exam).
Internship	Where a student apprentices in an office or a site to experience what it is like to work in a real-life situation.	(1) To develop that self-confidence of the student (2) To expose students to different types of work and comprehensive work experience essential for the independent practice of profession

CREDIT DISTRIBUTION IN UG PROGRAM

Credit Requirements

A student will have to take a total of minimum 220 credits in a ten-semester program of five years duration.

A student is required to take minimum 200 credits from the courses offered during the ten semesters of study.

A student is required to take a minimum 20 credits from the Summer and Winter School program that is offered between semesters.

A student will have to take a total of 155 Mandatory Course Credits (including Internship of 20 credits and Thesis of 15 credits) during all ten semesters.

A student will have to take 45 Elective Courses Credit from any Faculty, during the ten semesters. Out of this 25 credits have to be selected as GPA credits.

Internship Program will carry 20 credits - These are Course Credits.

Thesis Program will carry 15 credits - These are Mandatory Course Credits.

Students can take a maximum of 24 credits per semester and maximum of 5 credits in a Winter/ Summer program.

Mandatory Courses

Mandatory Course is designated as compulsory for a particular program. A Mandatory Course of one Faculty is considered as Elective for students of other Faculties.

Elective Courses

Elective Course is chosen by a student in any Faculty, subject to fulfillment of prerequisites.

CREDIT DISTRIBUTION IN PG PROGRAM

Credit Requirements

A student will have to take a total of minimum 90 credits in a four-semester program of two years duration.

A student is required to take minimum 80 credits from the courses offered during the four semesters of study.

A student is required to take a minimum 10 credits from the summer and winter program that is offered between semesters.

A student will have to take a total of 60 Mandatory Course Credit during four semesters.

A student will have to take 20 Elective Courses Credit from any Faculty, during the four semesters. Out of this 10 credits have to be selected as GPA credits.

Thesis Program will carry 15 credits -These are Mandatory Course Credits.

Students can take a maximum of 24 credits per semester and maximum of 5 credits in a Winter/ Summer program.

Mandatory Courses

Mandatory Course is designated as compulsory for a particular program. A Mandatory Course of one Faculty is considered as an Elective for students of other Faculties

Elective Courses

Elective Course is chosen by a student in any Faculty subject to fulfillment of prerequisites.

MANDATORY AND ELECTIVE COURSE LISTING

MANDATORY COURSES

UNDERGRADUATE PROGRAM IN ARCHITECTURE

MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**1000**	Studio 1	8	Sachin Soni, Puneet Mehrotra, Krishnakant Parmar	Admission in FA UG program, Mandatory for FA UG	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Studio
	1002	Visualization and Representation 1	5	Dilip Panchal, Arundati Saikia, Kinny Soni,	Admission in FA UG program, Mandatory for FA UG	14.30-18.30, 08.30-10.30, 14.30-18.30	Monday, Tuesday, Tuesday	Workshop, Technical Drawing and Visualization
	1003	Building Materials 1	2	Sankalpa, Ayaz Pathan	None, Mandatory for FA UG	14.30-18.30	Wednesday	Technology
	1004	Fundamental of Structure 1	2	V.R.Shah	None, Mandatory for FA UG	08.30-10.30	Wednesday	Technology
III	**1005**	Studio 3	6	Sankalpa, Ayaz Pathan, Alex D'Aram	Studio 1, Mandatory for FA UG	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday,	Studio
	1006	Building Elements 2	2	Sankalpa, Mona Khakhar	Basic knowledge of building materials and their properties	14.30-18.30	Monday	Technology
	1007	Structures 3	2	Mona Khakhar	Minimum of 1 course in structures	08.30-10.30	Tuesday	Technology
	1008	Climate Responsive Design	3	Vishwanath Kashikar	2nd year and above UG students and PG students	14.30-17.30	Thursday	Environment
	1039	Modeling and Simulation	2	Ujjval Panchal, Urvi Sheth	2nd year and above UG students	16.30-18.30, 14.30-16.30	Tuesday, Friday	Technical Drawing and Visualization,

					and PG students			Workshop
III	**1068**	History 1	2	Pratyush Shankar	None	08.30-10.30	Wednesday	History, Theory and Criticism, Humanities
V	**1010**	Studio 5	6	Gauri Bharat, Aparna Joshi, Vishwanath Kashikar, Ujjaval Parekh	Studio 3	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	1012	Building Systems and Services	3	Mona Khakhar, Mukesh Shah	Understanding of concepts of building construction and building design and the need for the services. 1st Year students are not eligible to take up the course	14.30-17.30	Thursday	Technology
	1014	History 3	2	Sachin Soni	None	08.30-10.30	Wednesday	History, Theory and Criticism
	1045	Structures IV	2	V.R.Shah	Minimum of 2 courses in structures	08.30-10.30	Tuesday	Technology
	1049	Moving and Still Imaging	2	Ujjval Panchal, Urvi Sheth	Aptitude to computer software.	14.30-16.30, 16.30-18.30	Tuesday, Friday	Workshop,Visual Communication and Performing Arts
VII	**1050**	Office Training	20	Sachin Soni	Studio 6 Cleared			Practice
VIII	**1015**	Studio 8	8	Nitin Raje	Office training + studio 6	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Studio
IX	**1016**	Studio 9	8	Pratyush Shankar, Milind Patel,	Studio 8	10.30-13.30, 10.30-13.30,	Monday, Wednesday,	Studio

IX				Purvi Bhatt		10.30-13.30, 10.30-13.30,	Thursday, Friday	
	1017	Professional Practice	2	Parth Shah	Practical training	08.30-10.30	Wednesday	Practice
	1018	Research Methods	3	Gauri Bharat	Grasp of English knowledge	14.30-17.30	Friday	Research
	1019	Specification and Contracts	2	Jaydeep Bhagat	Stage 1 clearance	08.30-10.30	Friday	Practice
X	**1020**	Thesis	15	Sankalpa				Research

MANDATORY COURSES

POSTGRADUATE PROGRAM IN ARCHITECTURE
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**1543**	Foundation Studio	9	Jigna Desai, Giulia Setti	Mandatory for M. Arch Semester I students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	1545	Orientation in Architecture	2	Urvi Desai (Coordinator), Brijesh Bhatha, Jigna Desai, Gauri Bharat	Mandatory for M. Arch Semester I students	08.30-10.30	Friday	Research
	1546	Documenting and Communicating Architecture	2	Gauri Bharat	Mandatory for M. Arch Semester I students	09.30-13.30	Thursday	Visual Communication and Performing Arts, Research
	1544	Introduction to Architectural Thinking	2	Neelkanth Chhaya	Mandatory for M.Arch Semester I students, open to postgraduates and 4th and 5th Year UG students	08.30-10.30	Wednesday	History, Theory and Criticism
III	**1549**	Studio III: Urban Transformation	8	Rajiv Kadam, Manan Singhal	M. Arch (UD) Semester I	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Studio
	1550	Studio Seminar	2	Rajiv Kadam	Registration in UD Studio 3: Urban transformation	08.30-10.30	Tuesday	Research
	1551	Urban Planning and Legislation	3	Rutool Sharma	Mandatory for M.Arch (UD) semester III	14.30-16.30	Monday	Urban and Regional Planning

					students, open to postgraduates and 4th and 5th Year UG students			
	1552	Urban Design: Pre-Thesis Seminar	2	Brijesh Bhatha	Mandatory for M.Arch (UD) semester III students	08.30-10.30	Friday	Research
	1553	Studio III: New Urbanity, New Meanings	8	Jaydeep Bhagat, Anjali Kadam	Mandatory for M.Arch (TD) semester III students	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Studio
IIII	**1554**	Theory and History of Cities	2	Pratyush Shankar	Mandatory for M.Arch (TD) and M.Arch (ASC) semester III students, open to all postgraduates and 4th and 5th Year students of UG programs	08.30-10.30	Thursday	History, Theory and Criticism
	1555	New Media	3	Henry Skupniewicz	Mandatory for M. Arch (TD) Semester III, open to all postgraduates and 4th and 5th Year students of UG programs	14.30-17.30	Monday	Visual Communication and Performing Arts
	1556	Theory and Design: Pre-Thesis Seminar	2	Gauri Bharat	Mandatory for M. Arch (TD) Semester III	08.30-10.30	Tuesday	Research
	1557	Studio III: Settlement Studies	8	Khushi Shah	Mandatory for M. Arch (ASC)	10.30-13.30, 10.30-13.30,	Monday, Wednesday,	Studio

					Semester III	10.30-13.30, 10.30-13.30	Thursday, Friday	
	1558	Conservation Studies III	3	Jigna Desai	Mandatory for M. Arch (ASC) Semester III, open to postgraduates and 4th and 5th Year UG students	14.30-17.30	Wednesday	History, Theory and Criticism,
	1559	Studio III Seminar	2	Anjali Kadam	Registration in ASC Studio 3: Settlement studies	08.30-10.30	Tuesday	Research
	1560	Studio III: Optimal Building	8	Urvi Desai	Mandatory for M. Arch (SA) Semester III	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Studio
III	**1561**	Building Systems and Energy Efficiency	2	Mona Khakkar, Urvi Desai	Mandatory for M. Arch (SA) Semester III, open to postgraduates and 4th and 5th Year UG students	14.30-16.30	Friday	Technology
	1562	Sustainable Systems and Processes II	3	Urvi Desai	Mandatory for M. Arch (SA) Semester III, open to postgraduates and 4th and 5th Year UG students	14.30-16.30	Tuesday	Environment
	1571	Sustainable Architecture Pre-Thesis Seminar	2	Urvi Desai	Mandatory for M.Arch sustainable architecture students	08.30-10.30	Tuesday	Research

MANDATORY COURSES

POSTGRADUATE PROGRAM IN LANDSCAPE ARCHITECTURE
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**1513**	Natural Sciences - I	2	Deepa Maheshwari, N. Madhukara	Open for all P G students	09.30-10.30, 09.30-10.30	Monday, Tuesday	Environment, Landscape
	1516	Landscape Design Studio – I - MLA	9	Divya Shah, Anjali Jain	Only for MLA 1st semester students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday	Studio
	1517	Landscape Design Studio – I - MLD	9	Parin Shah, Anjali Jain	Only for MLD 1st semester students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday	Studio
	1563	Natural Sciences - II	2	Deepa Maheshwari, S.S. Rao, Sandip Patil	Open for all P G students	08.30-10.30	Wednesday	Environment, Landscape
	1564	Landscape Engineering	2	S.A.Kalgaonkar, Sandip Patil, Rishabh Jain, Vikas Giri	Open for all PG students, Undergraduate students IV year onwards	09.30-10.30, 09.30-10.30	Thursday, Friday	Technology, Landscape
III	**1565**	Regional Landscape Planning	2	Sandip Patil, Niti Mehta, S.A. Kalgaonkar	Open for all PG students	16.30-18.30	Wednesday	Landscape
	1566	Professional Practice for Landscape	2	Sandip Patil, Satyajit Sen	Open for all PG students	17.30-19.30	Friday	Landscape
	1567	Landscape Conservation	2	Deepa Maheshwari, Sandip Patil, Divya Shah	Only for MLA-MLD 3rd semester students	15.30-17.30	Monday	Landscape
	1568	Landscape Design Studio –III - MLA / MLD	9	Deepa Maheshwari, Sandip Patil	Only for MLA-MLD 3rd	10.30-13.30, 10.30-13.30,	Monday, Wednesday,	Studio

III					semester students	10.30-13.30	Friday	
	1569	Landscape Engineering III	1	Vikas Giri	Open for all PG students	09.30-10.30	Thursday	Technology

ELECTIVE COURSES

FACULTY OF ARCHITECTURE
MONSOON SEMESTER – 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**1026**	English Language and Communication	2	Neha Krishnakumar	None	08.30-10.30	Monday	Language and Communication
	1027	Ceramics	2	Snehal Kashikar, Dilip Panchal	None	14.30-18.30	Friday	Visual Communication and Performing Arts Workshop
	1056	How to Look at Art	2	Esther David	None	14.30-16.30	Thursday	Visual Communication and Performing Arts
	1069	Literary Sojourns	2	Hemang Desai	None	08.30-10.30	Thursday	Humanities
	1070	Domesticity and Housing in India	2	Vishwanath Kashikar	3rd Year and above UG students and PG students	08.30-10.30	Monday	History, Theory and Criticism,Housing
	1071	Architectural Photography	2	Parth Shah	2nd year UG onwards with a DSLR camera	14.30-18.30	Wednesday	Workshop,Visual Communication and Performing Arts
	1072	Modeling, Simulations and Games	2	Nitin Raje	4th year UG onwards + PG	08.30-10.30	Thursday	Science and Mathematics,Computer Application and Programming
	1073	Living Public Spaces – an experience	2	Mehrnaz Amiraslani	3rd year UG onwards + PG	08.30-10.30	Thursday	History, Theory and Criticism,Humanities
	1074	Representations of Space	2	Seema Khanwalkar	None	08.30-10.30	Friday	Humanities,Visual Communication and Performing Arts
	1075	Place-Making and Urban Design Guidelines	2	P. V. K. Rameshwar	3rd Year and above UG	08.30-10.30	Monday	Humanities

					students and PG students of Architecture and Planning			
I	**1509**	Streets for People	3	Jigna Desai, Madhavi Joshi, Purvi Vyas	None	14.30-16.30	Friday	History, Theory and Criticism
	1547	Recomposing Urban Fragments	2	Giulia Setti	Open to postgraduates and 4th and 5th Year UG students	14.30-16.30	Thursday	History, Theory and Criticism
	1548	Humanizing Cities	2	Rajiv Kadam	None	08.30-10.30	Monday	Humanities
I	**1518**	Field Study of Plants	3	Deepa Maheshwari, Divya Shah	Open for all PG students, Undergraduate students III year onwards	15.30-18.30	Wednesday	Landscape
	1570	Economics of Environment	2	Niti Mehta	Open for all PG students	16.30-18.30	Thursday	Environment

MANDATORY COURSES

UNDERGRADUATE PROGRAM IN INTERIOR DESIGN
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**2000**	Basic Design - I	6	Krishna Shastri, Jay Thakkar, Kamalika Bose, Rajesh Sagara	Students registered for Semester -1 at Faculty of Design	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio,Workshop
	2001	VR-Technical Representation Drawings	3	Kireet Patel	Students who have registered for or cleared Basic Design - I at the Faculty of Design are eligible for the course.	14.30-17.30, 14.30-17.30	Tuesday, Thursday	Workshop, Technical Drawing and Visualization
	2002	VR-Sketching	3	Rajesh Sagara	Students registered for semester-1 at Faculty of Design are eligible for the course	14.30-17.30 10.30-13.30	Monday, Thursday	Visual Communication and Performing Arts, Workshop
	2059	Construction Technology-1	3	Umesh Lavingia, Hamid Raj, Varun Shah	Students who have registered for or cleared Basic Design - I at the Faculty of Design are eligible for the course	08.30-11.30 14.30-17.30	Tuesday, Friday	Technology,Workshop
III	**2007**	Studio - I	6	Shrutie Tamboli,	Basic Design - II	10.30-13.30,	Monday,	Studio,Workshop

				Sakthivel, Henri S, Aditi Vashisht	from Faculty of Design along with TRD - I, and S&M, Structure & Material (Construction Technology) I & II (or TRD - I, II, Basic Structure - I, II & BMMC - I,II from the old curriculum)	10.30-13.30, 10.30-13.30,	Wednesday, Friday	
III	**2008**	Furniture Design - I	4	Samir Bhatt, Jay Thakkar, Shailesh Manke	Students who have cleared Basic Design - II from Faculty of Design and Structure & Material (Construction Technology) I & II (or Basic Structure - I, II & BMMC - I, II from the old curriculum) are eligible for the course	14.30-17.30, 14.30-17.30, 14.30-17.30, 10.30-13.30	Monday, Tuesday, Wednesday, Thursday	Studio, Workshop
	2060	VR-Graphic Design	3	Kamalika Bose, Jaai Kakani	Students who have cleared Basic Design - I from Faculty of Design & VR - Drawing with	14.30-17.30, 14.30-17.30, 14.30-17.30, 10.30-13.30	Monday, Tuesday, Wednesday, Thursday	Technical Drawing and Visualization, Workshop

					Color course. (or Colour Workshop & Sketching with Colour from the old curriculum)			
III	**2061**	Construction Technology -III	2	Kireet Patel, Anuj Anjaria, Niyati Patel	Students who have cleared Structure & Material (CT) - I & II are eligible for this course, (or Basic Structure - I,II & BMMC - I, II from the old course)	09.30-10.30 14.30-17.30	Thursday, Friday	Workshop, Technology
	2062	History of Design	2	Kamalika Bose	None	08.30-10.30	Tuesday	History, Theory and Criticism,
V	**2013**	Studio - III	6	Manisha Basu, Snehal Nagarsheth, Rishav Jain	Students who have cleared Interior Design Studio - II, Furniture Design - II (or Space Planning - II & Furniture Design - II from the old curriculum)	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	2014	Furniture Design - III	4	Shrutie Tamboli, Poonam Jolly, Komal Dighe	Students who have cleared Furniture Design - I will be eligible for the course	14.30-17.30, 10.30-13.30	Monday, Thursday	Workshop
	2015	Interior Construction Drawing - I	4	Amal Shah, Ramesh Patel	Students who have cleared	14.30-17.30, 14.30-17.30	Wednesday, Friday	Technical Drawing and Visualization

V					Interior Design Studio - II (or Space Planning - II from the old curriculum), BMMC - 2 as well as Digi. Tech. - I from the old curriculum (or have a sound knowledge of AutoCad 2D) will be eligible for the course			
	2044	Interior Construction Drawing-II	3	Amal Shah, Ramesh Patel	UG students: Cleared Interior Design Studio - III, ICD-1 as well as Digi. Tech. - I and BMMC - 2 from the old curriculum	14.30-17.30, 14.30-17.30	Wednesday, Friday	Technical Drawing and Visualization
	2063	History IV	2	Shrutie Tamboli, Avinash Engineer	3rd year and above UG only	08.30-10.30	Tuesday	History, Theory and Criticism
VII	**2047**	Office Training	20		Students who have cleared Studio-IV and Interior Construction Drawing-1&2	As per office schedule	All Five days	Practice
	2018	Interior Design Studio - VI	8	Kireet Patel, Gurjit Singh, Rathin Goghari	Students who have successfully completed Office Training and	10.30-13.30	Monday, Wednesday, Thursday, Friday	Studio

IX					cleared Interior Design Studio - IV from the Faculty of Design are eligible for the course			
	2019	History - V	3	Snehal Nagarsheth	Students who have cleared History - III & IV are eligible for the course	14.30-17.30	Friday	History, Theory and Criticism
X	**2022**	Thesis	15					Research

MANDATORY COURSES

POSTGRADUATE PROGRAM IN INTERIOR ARCHITECTURE & DESIGN
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**2504**	Generative Design Process - I	3	Jwalant Mahadevwala, Krishna Shastri	Students who are currently registered in semester I in a PG program at Faculty of Design	14.30-17.30, 14.30-17.30	Tuesday, Wednesday	Workshop
	2521	History & Theory - I	4	Snehal Shah	Students who are currently registered in a PG program at Faculty of Design or the Master of Landscape Architecture program at Faculty of Architecture	08.30-12.30	Monday	History, Theory and Criticism
	2522	Craft: Processes, Collaboration and Cultural Perception	4	Jay Thakkar, Kireet Patel	Students who are currently registered in semester I in a PG program at Faculty of Design	10.30-13.30, 14.30-17.30	Thursday, Thursday	Crafts, Technology, Studio
	2523	Building Energy Efficiency - I	4	Sanyogita Manu, Munjal Bhatt	Students who are currently registered in semester I in a PG program at Faculty of Design	10.30-13.30, 14.30-17.30	Friday, Friday	Environment, Research, Studio,Technology

III	**2524**	Developing a Thesis Proposal	4	Patrick McAndrews	Students who are currently registered in semester III in a PG program at Faculty of Design	09.30-13.30	Wednesday	Research
	2525	Research Writing	3	Patrick McAndrews	Students who are currently registered in semester III in a PG program at Faculty of Design	10.30-13.30	Monday	Research
	2526	Research Processes	8	Rishav Jain	Students who are currently registered in semester III in a PG program at Faculty of Design	14.30-17.30, 08.30-10.30, 14.30-18.30, 14.30-17.30	Monday, Tuesday, Tuesday, Wednesday	Research

ELECTIVE COURSES

FACULTY OF DESIGN
MONSOON SEMESTER – 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**2023**	Clay & Ceramics	2	Neelma Nagpal, Snehal Kashikar	None	14.30-18.30	Wednesday	Workshop, Visual Communication and Performing Art
	2025	Digital Technology - I	3	Amal Shah	2nd year and above Undergraduate students.	08.30-10.30, 08.30-10.30, 08.30-10.30	Monday, Wednesday, Friday	Computer Application and Programming, Workshop
	2064	Exploring Museums	2	Rajesh Sagara	2nd year and above students.	14.30-18.30	Thursday	Workshop
	2065	Weaving Workshop	2	Rajan Choudhary, Fakira	None	14.30-18.30	Wednesday	Workshop
	2066	Wood Workshop	2	Vishal Wadhwani	Only for Undergraduate student 2nd Year and beyond.	14.30-18.30	Thursday	Workshop
	2067	Rediscovering Ahmedabad	2	Hamid Raj	None	14.30-18.30	Tuesday	Workshop,History, Theory and Criticism
	2068	Design Management	2	Canna Patel	Students who are currently in 3d Year and beyond are eligible for the course.	08.30-10.30	Wednesday	Practice
	2069	Communication Workshop	2	Aditi Vashisht	1st and 2nd Year students of the UG programs.	08.30-10.30, 08.30-10.30	Monday, Thursday	Workshop
	2070	2D to 3D	2	Henry Skupniewicz	All years, All	08.30-10.30,	Wednesday,	Workshop,Technical

					faculty (Seat Limit of 8 students).	08.30-10.30	Friday	Drawing and Visualization
	2071	Generating Form through Making	2	Henry Skupniewicz	Postgraduate 1st Year all faculty (Seat Limit of 8 students).	14.30-18.30	Tuesday	Workshop
I	**2507**	Cultural Anthropology	3	Seema Khanwalkar	Students who are currently registered in a PG program at CEPT.	14.30-16.30	Wednesday	Humanities
	2527	History of Arts and Crafts	2	Asha Mandapa	Students who are currently registered in semester VII or above in a UG program at Faculty of Design or Architecture OR in a PG program at Faculty of Design or Architecture.	14.30-16.30	Tuesday	History, Theory and Criticism
	2528	India 1800-1947	2	Snehal Shah	Students currently registered in semester IX or above in UG prog at Faculty of Design or Architecture OR in a PG prog at Faculty of Design or Architecture.	16.30-18.30	Monday	History, Theory and Criticism

MANDATORY COURSES

POSTGRADUATE PROGRAM IN HABITAT MANAGEMENT
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**3000**	Facilities Management	9	Mercy Samuel, Nimitt Karia, Shreekant Iyengar, Jayshree Rammohan, Manvita Baradi	Only MHM Sem I students	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Management,Studio
	3003	Fundamentals of Accounting	2	Rajnikant Trivedi	All UG and PG students	16.30-18.30	Thursday	Management
	3004	Urban Utilities Management	2	Devanshu Pandit	UG 3rd year and above, all PG students	08.30- 10.30	Tuesday	Management
	3015	Management Principles and Practice	2	Margie Parikh	UG 3rd year onwards and All PG students	14.30-16.30	Tuesday	Management
III	**3019**	Services Improvement Management	9	Manvita Baradi, Meghna Malhotra, Margie Parikh, Utkarsh Patel, Rajan Raval, Devanshu Pandit, Shelly Kulshrestha (AA)	Only MHM sem III students	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Management,Studio
	3020	Contract Management	1	Nimitt Karia	UG 3rd year onwards and All PG students	17.30-19.30	Friday	Management
	3021	Social Innovations, Entrepreneurship	2	Rakesh Basant, Mercy Samuel	Only MHM students	14.30-16.30	Monday	Management

ELECTIVE COURSES

FACULTY OF MANAGEMENT
MONSOON SEMESTER – 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**3016**	Parking Management	2	Anuj Malhotra	UG 3rd year onwards and All PG students	08.30- 10.30	Monday	Management
	3017	TKW Technology & CKCS Software: An understanding of the Traditional Wisdom & its Applications in the Built Environment	2	Nimish Patel, Parul Zaveri	UG 4th year onwards and All PG students	14.30-16.30, 14.30-16.30	Wednesday, Thursday (3rd Sept. onwards)	Management
	3018	Exploring Smart Cities	3	Gayatri Doctor	UG 3rd year onwards and All PG students	16.30-18.30, 15.30-16.30	Tuesday, Friday	Management
III	**3022**	Social Infrastructure Management	2	Shreekant Iyengar	2nd year undergraduate and All PG students	08.30-10.30	Thursday	Management
	3023	Financial Management	2	Bala Bhaskaran	UG 3rd year onwards and all PG students	08.30-10.30	Wednesday	Management
	3024	Safer Cities	1	Shelly Kulshrestha	UG 2nd year and onwards including PG students	16.30-17.30	Monday	Management

MANDATORY COURSES

UNDERGRADUATE PROGRAM IN PLANNING
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
III	**4005**	Urban History -1	3	Rutul Joshi,Renu Desai	Open for all	08.30-11.30	Thursday	History, Theory and Criticism
	4006	Statistics -1	2	Ami Divetiya	Open for all	08.30-10.30	Monday	Science and Mathematics
	4038	Ecology, Environment & Planning	2	Subhrangsu Goswami	Only for B Plan students	14.30-16.30	Tuesday	Environment
	4007	Demography and Data Systems	2	Vishal Dubey, Ravi Sannabhadti	Open for all	08.30-10.30	Friday	Economics and Development
	4008	Urban Lab -II (Neighbourhood Scale)	6	Yatin Pandya, Neha Mehta, Parul Choudhary	Only for B Plan students who have cleared previous lab	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
V	**4039**	Planning Theory -1 (Land Use, Built form, Transport)	3	Lita	Open for all	14.30-16.30	Tuesday	History, Theory and Criticism
	4040	Transportation Planning	2	Anuj Malhotra	Only for B.Plan Students	08.30-10.30	Friday	Transport
	4009	Economics -1	2	Anurima Mukherjee	Only for B Plan, 5th semester	14.30-16.30	Monday	Economics and Development
	4010	Spatial Planning and Environmental Design	2	Charanjeet Singh, Lita Mohanty	B Plan students as well as for 4th or 5th Year students from other schools	08.30-10.30	Wednesday	History, Theory and Criticism
	4011	Area Planning Lab	6	Ram Patel, Rutool Sharma, Purvi Patel, Jennifer Pieree	Only for B Plan students who have cleared previous lab	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio

VII	**4041**	Housing and Real Estate Planning	2	Madhu Bharti	Open for all	08.30-10.30	Monday	Housing
	4042	Qualitative and Participatory Methods	2	Ravi Sannabhadti, Jennifer Pieree	Only for B Plan	08.30-10.30	Tuesday	Research
	4043	Poverty and Inclusive Planning	2	Ravi Sannabhadti	Open to all	08.30-10.30	Wednesday	Economics and Development
	4044	Environmental Legislations-1	2	Neeru Bansal	Open to all	08.30-10.30	Thursday	Environment
	4045	Regional Planning Theory	2	Anil Roy	Open to all	08.30-10.30	Friday	Urban and Regional Planning
	4046	Environmental Planning(tools and Methods)	2	Ashwani Kumar	Should be from 3rd/4th Year and they should have at-least one course (credited) on environmental science, sustainability or any other course on environment at U.G.	14.30-16.30	Tuesday	Environment
	4047	Regional Planning Lab (Taluka level)	6	R. Parthasarathy, Anil Roy, Ajay Katuri, Charanjeet Singh, Chandrima	Only for B Plan students who have cleared previous lab	10.30-13.30 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio

MANDATORY COURSES

POSTGRADUATE PROGRAM IN PLANNING
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**4500**	Area Planning Laboratory Exercise	9	Bimal Patel, Rutul Joshi, Ravi Sannabhadti, Ashima Banker, Chirayu Bhatt, Deepa Dave, Subhrangsu Goswami, Jignesh Mehta, Brijesh Bhatha, Mellisa Smith-Bandukwala	Only for M. Plan students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	4502	Economics	2	R. Parthasarathy, Anurima Mukherjee Basu, Vishal Dubey	Open for all P G students	08.30-10.30	Wednesday	Economics and Development, Urban and Regional Planning
	4538	Planning Methods	2	C.N. Ray, Talat Munshi	Open for all P G Students	08.30-10.30	Tuesday	Urban and Regional Planning, Research
	4539	History of Planning	2	Shrawan Kumar Acharya	Open for all P G students	08.30-10.30	Thursday	Urban and Regional Planning
III	**4541**	Regional Planning and Development	2	Shrawan Kumar Acharya, Vishal Dubey	Mandatory for Urban and Regional Planning specialization students, Open for all PG students	08.30-10.30	Monday	Urban and Regional Planning
	4542	Urban Politics and Governance	2	Shrawan Kumar Acharya, Anurima Mukherjee Basu	Open for all P G students	08.30-10.30	Tuesday	Urban and Regional Planning, Policy and Legislation

III	**4543**	Rural Development	2	C.N.Ray	Mandatory for Urban and Regional Planning specialization students, Open for all PG students	14.30-16.30	Monday	Urban and Regional Planning, Economics and Development
	4544	Urban Land Supply, Policies and Valuation	2	Rutool Sharma	Mandatory for Urban and Regional Planning specialization students, Open for all PG students	08.30-10.30	Wednesday	Urban and Regional Planning, Management
	4545	Environmental and Social Impact Assessment	2	Ashwani Kumar	Mandatory for Environmental Planning specialization students, Open for all PG students	08.30-10.30	Thursday	Urban and Regional Planning, Environment
	4546	Environmental Economics	2	R. Parthasarathy	Mandatory for Environmental Planning specialization students, Open for all PG students	14.30-16.30	Tuesday	Economics and Development, Environment
	4547	Energy, Climate Change and Development	2	Minal Pathak	Mandatory for Environmental Planning specialization students, Open for all PG students	14.30-16.30	Wednesday	Environment

III	**4548**	Environment & Quality of Life	2	Neeru Bansal	Mandatory for Environmental Planning specialization students, Open for all PG students	08.30-10.30	Tuesday	Urban and Regional Planning,Environment
	4549	Climate Change and Cities	2	Minal Pathak	Mandatory for Environmental Planning specialization students, Open for all PG students	14.30-16.30	Friday	Urban and Regional Planning,
	4550	Housing Programme and Project Development & Evaluation	2	Sejal Patel	Mandatory for Housing specialization students, Open for all PG students	14.30-16.30	Tuesday	Housing,Urban and Regional Planning
	4551	Urban Development and Real Estate	2	Madhu Bharti	Mandatory for Housing specialization students, Open for all PG students	14.30-16.30	Wednesday	Housing,Urban and Regional Planning
	4552	Water and Sanitation	2	Mona Iyer	Mandatory for Infrastructure Planning specialization students, Open for all PG students	14.30-16.30	Monday	Infrastructure,Urban and Regional Planning
	4553	Port Planning	2	Anil Roy, Mihir Das, Saswat	Mandatory for Infrastructure	08.30-10.30	Wednesday	Infrastructure,Urban and Regional Planning

III				Bandyopadhyay	Planning specialization students, Open for all PG students			
	4554	Infrastructure Projects Structuring and Finance	2	Saswat Bandyopadhyay, Visiting Faculty	Mandatory for Infrastructure Planning specialization students, Open for all PG students	16.30-18.30	Monday	Infrastructure, Economics and Development
	4555	Energy Infrastructure	2	Minal Pathak, Mona Iyer	Mandatory for Infrastructure Planning specialization students, Open for all PG students	08.30-10.30	Tuesday	Infrastructure, Environment
	4556	Transport Economics and Appraisal	2	H. M. Shivanand Swamy	Mandatory for Urban Transport Planning and Management specialization students, Open to PG Planning. Economics in 1st Sem	16.30-18.30	Tuesday	Transport,Economics and Development
	4557	Transport Finance/ Financing Urban Transport	2	H. M. Shivanand Swamy, Visiting Faculty	Mandatory for Urban Transport Planning and Management specialization students, Open to	14.30-16.30	Thursday	Transport, Economics and Development

III					PG Planning, Public and Project Finance in 2nd Sem			
	4558	Regional Planning Studio	8	Shrawan Acharya, C.N.Ray, Vishal Dubey, Ashwani Kumar, Dinesh Mehta, Himanshu Thakkar	Only for M.Plan students	10.30-13.30, 10.30-13.30 10.30-13.30	Monday, Wednesday, Friday	Studio
	4559	Environmental Planning Studio	8	Saswat Bandyopadhyay	Only for M.Plan students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	4560	Infrastructure Project Studio	8	Mona Iyer, Meera Mehta	Only for M.Plan students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	4561	Transportation Detail Project Report Studio	8	Abhijit Lokre	Only for M.Plan students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio

ELECTIVE COURSES

FACULTY OF PLANNING
MONSOON SEMESTER – 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**4014**	Mass Housing: Issues and Approaches	2	Yatin Pandya	Open for all	14.30-16.30	Thursday	History, Theory and Criticism
I	**4504**	G.I.S. for Planners	2	Anjana Vyas	Open for all P G students	14.30-16.30	Thursday	Urban and Regional Planning, Computer Application and Programming
	4540	Understanding of Indian Society	2	C.N. Ray	Open for all P G students	14.30-16.30	Wednesday	Urban and Regional Planning, Humanities
	4562	Environmental Laws and Policy	2	Neeru Bansal	Open for all PG students	08.30-10.30 14.30-16.30	Wednesday Thursday	Environment,Policy and Legislation
	4563	Industrial Ecology	2	Anil Roy	Open for all students	08.30-10.30	Monday	Environment
	4564	Integrated Energy Management	2	R. Parthasarathy, Rutool Sharma	Open for all students	08.30-10.30	Monday	Environment, Management
	4565	History and Theory of Urbanization	2	Anil Roy	Open for all PG students	16.30-18.30	Thursday	Urban and Regional Planning
	4566	Modelling Land Use and Transport	2	Talat Munshi	Open for all PG students	16.30-18.30	Thursday	Transport, Urban and Regional Planning
	4567	Built Form & Regulations	2	Brijesh Bhatha, Jignesh Mehta	Open to all students	14.30-16.30	Wednesday	Urban and Regional Planning, Policy and Legislation
	4568	Legal Framework for Urban Environment Management	2	C.N.Ray, Ashwani Kumar	Open for all PG students	16.30-18.30	Monday	Environment, Policy and Legislation
	4569	Urban Environmental Risk Assessment and Management	2	Ajay Katuri	Open for all PG students	16.30-18.30	Monday	Urban and Regional Planning, Environment
	4570	Smart Cities	2	Saswat	Open for all PG	16.30-18.30	Friday	Urban and Regional

				Bandyopadhyay, Sejal Patel	students			Planning
	4571	Microsoft Project	2	Ajit Desai	Open for all PG students	14.30- 16.30	Monday	Computer Applications and Programming, Management
	4572	Development Innovation II	2	Dinesh Mehta, Meera Mehta	Students who had cleared the subject Development Innovation I Elective	16.30-18.30	Tuesday	Economics and Development, Urban and Regional Planning
I	**4573**	Transport Modelling II	3	Shalini Sinha	PG Planning, Transport Planning & Modelling in 2nd Sem	08.30-10.30	Thursday	TransportUrban and Regional Planning
	4574	Transport Infrastructure Planning and Design II	2	Abhijit Lokre	PG Planning. Transport Infrastructure Planning and Design in 2nd Sem	16.30-18.30	Wednesday	Transport,Urban and Regional Planning
	4575	Public Engagement for Urban Professionals	2	Vanishree Herlekar	Open for all 4th Year and above UG and PG students	16.30-18.30	Thursday	Urban and Regional Planning
	4576	Governing Cities: Alternative Epistemologies of Power and Politics	2	Chandrika Parmar	Open for all students	08.30-10.30	Thursday	Urban and Regional Planning, Policy and Legislation

MANDATORY COURSES

UNDERGRADUATE PROGRAM IN CONSTRUCTION TECHNOLOGY
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**5002**	Engineering Drawing	4	Bhushan Sachdeva, Yogesh Gandevikar	None	10.30-13.30, 10.30-13.30	Thursday, Friday	Technical Drawing and Visualization
	5043	Aplied Science	4	V. P. Patel, G. M. Chippa, J.J.Vora	Any 1st year UG students	10.30-13.30, 10.30-13.30, 16.30-18.30	Monday, Wednesday, Friday	Science and Mathematics
	5069	Engineering Material I	5	Anal Sheth, Pavni Pandya	None	14.30-16.30, 09.30-10.30, 09.30-10.30, 14.30-16.30, 09.30-10.30	Tuesday, Wednesday, Thursday, Thursday, Friday	Technology
	5070	Environmental Studies	2	Dipsha Shah	None	14.30-16.30	Wednesday	Environment
III	**5010**	Building Services (Plumbing)	3	Dipsha Shah	None	16.30-17.30, 15.30-16.30, 08.30-09.30	Monday, Thursday , Friday	Technology,Services and Advance Technology
	5071	Geotechnical Engineering	5	Komal Parikh, Pavni Pandya	None	08.30-10.30, 14.30-16.30, 14.30-15.30, 14.30-16.30	Monday, Monday, Thursday, Friday	Technology
	5072	Structural Analysis	3	Komal Parikh, Parth Thaker	None	08.30-10.30, 08.30-09.30, 09.30-10.30	Tuesday, Wednesday, Friday	Technology
	5073	Construction Technology I	4	Reshma Shah, Pavni Pandya, Jayesh Parekh	None	10.30-13.30, 10.30-13.30	Monday, Wednesday	Technology
	5074	Strength of Materials	2	Komal Parikh	None	14.30-16.30	Tuesday	Technology

					This course is mandatory for 2013 batch Technology students			
V	**5075**	Construction Technology III	4	Japan Shah, Hitendra Soni, Tushar Patel	None	10.30-13.30, 08.30-09.30, 08.30-09.30	Monday, Thursday, Friday	Services and Advance Technology, Advance Technology
	5076	Water & Waste Water Engineering	3	Dipsha Shah	None	10.30-13.30	Thursday	Technology,Services and Advance Technology
	5077	Concrete Technology	5	Parth Thaker, Bhargav Tewar	None	14.30-16.30, 10.30-13.30, 09.30 10.30, 10.30-13.30	Monday, Wednesday, Friday, Friday	Technology,Workshop
	5078	Structural Analysis III	3	Parth Thaker	None This course is mandatory for 2012 batch Technology students	09.30-10.30, 09.30-10.30, 15.30-16.30	Wednesday, Thursday, Friday	Technology
	5089	Quantity Surveying & Specifications	3	Devanshu Pandit, Bhargav Tewar	None	14.30-16.30, 14.30-16.30	Tuesday, Thursday	Management,Practice
VII	**5017**	Engineering Economics	3	Rajesh Matta	None	08.30-09.30, 08.30-09.30, 08.30-09.30	Wednesday, Thursday, Friday	Economics and Development
	5020	RCC Design Studio	4	Anal Sheth, Parth Thaker	Structural Analysis or equivalent	10.30-13.30, 10.30-13.30	Wednesday, Thursday	Technology,Services and Advance Technology
	5079	Project Management	4	Devanshu Pandit, Shridip Shah	None	08.30-09.30, 10.30-13.30, 08.30-09.30, 09.30-10.30	Monday, Monday, Tuesday, Friday	Management,Practice

	5080	Structural Failures, Repairs & Rehabilitation	4	Pavni Pandya, Mehul Vyas	None	14.30-16.30, 10.30-13.30	Wednesday, Friday	Technology,Services and Advance Technology
IX	**5023**	Professional Practice for Engineers	3	Devnashu Pandit	For students other than UG, FT, minimum 7th semester and above level students	14.30-15.30, 14.30-16.30	Wednesday, Thursday	Practice
	5081	Project	5	Reshma Shah, Jyoti Trivedi	For students other than UG, FT, minimum 7th semester and above level students. Preferably office training completed. For UG, FT students project training clearnace is required	14.30-15.30, 10.30-13.30, 10.30-13.30	Tuesday, Wednesday, Thursday	Practice
	5082	Research Methodology	3	C.B. Shah, Ganesh Devkar	None	09.30-10.30, 09.30-10.30, 09.30-10.30	Tuesday, Thursday, Friday	Research
	5083	Bridge Engineering	4	Mukesh Majeethia	None	08.30-10.30, 08.30-10.30, 08.30-09.30	Monday, Wednesday, Friday	Technology, Services and Advance Technology

MANDATORY COURSES

POSTGRADUATE PROGRAM IN CONSTRUCTION ENGINEERING
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**5500**	Construction Management - I	6	P.V.Akalkotkar, Jyoti Trivedi	Mandatory for MCEM 1st Semester students, Open to all PG students	10.30-13.30, 10.30-13.30	Monday, Wednesday	Practice,Studio
	5501	Construction Finance & Accounting System	3	D.R.Patel, Mobin Shaikh	Mandatory for MCEM 1st Semester students, Open to all PG students	08.30-10.30, 08.30-10.30	Wednesday, Friday	Practice
	5502	Advanced Construction Practices	3	Jyoti Trivedi, Ganesh Devkar	Mandatory for MCEM 1st Semester students, Open to all PG students	14.30-17.30	Tuesday	Technology
	5565	Research Methodology & Quantitative Techniques	3	Vivek Bhatt, Maulik Desai	Mandatory for MCEM 1st Semester students, Open to all PG students	14.30-17.30	Wednesday	Research
III	**5566**	Mechanical Electrical Plumbing and Fire Fighting	3	Alpesh Panchal	Mandatory for MCEM 3rd Semester students and Open to all PG	14.30-17.30	Friday	Services and Advance Technology, Practice

III					students			
	5567	Independent Study-II	3	P.V.Akalkotkar, Jyoti Trivedi, Ganesh Devkar	Mandatory for MCEM 3rd Semester students and Open to PG students who have completed Independent Study-I.	14.30-17.30	Monday	Research
	5568	Advanced Quantity Survey	6	Amar Sanghavi, Ganesh Devkar	Mandatory for MCEM 3rd Semester students, Open to all PG students who had completed Fundamentals of Quantity Survey	10.30-13.30, 10.30-13.30	Wednesday, Friday	Practice, Studio
	5569	Strategic Planning for Construction Organizations	3	Dhaval Mehta	Mandatory for MCEM 3rd Semester students, Open to all PG students	11.30-13.30, 10.30-12.30	Monday, Thursday	Practice

MANDATORY COURSES

POSTGRADUATE PROGRAM IN ENGINEERING DESIGN
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**5510**	Studio-1-Gravity Structures (SED)	4	Dhara Shah, Bhairav Patel, Mehul Shah	Only for MSED 1st Semester students	10.30-12.30, 10.30-12.30	Monday, Wednesday	Studio,Technical Drawing and Visualization
	5573	Advanced Design of Reinforced Concrete Structures (SED)	4	Aanal Shah, Bhargav Tewar	Open to all PG students	08.30-11.30, 14.30-16.30	Friday, Friday	Advanced Technology, History, Theory and Criticism
	5574	Advanced Design of Steel Structures (SED)	4	Dhara Shah, Parth Thaker	Open to all PG students	14.30-16.30, 09.30-12.30	Tuesday, Thursday	Advanced Technology, History, Theory and Criticism
	5575	Advanced Method of Analysis (SED)	3	Rupal Shah	Open to all PG students	08.30-10.30, 08.30-09.30	Monday, Wednesday	Advanced Technology
III	**5577**	Design of Stack like Structures (SED)	3	Aanal Shah, Rakesh Shah	Only for MSED 3rd Semester students	08.30-09.30, 08.30-10.30	Tuesday, Thursday	Advanced Technology, History, Theory and Criticism
	5578	Marine Structures (SED)	3	Dhara Shah, Mehul Patel	Only for MSED 3rd Semester students	10.30-13.30	Friday	Advanced Technology
	5579	Design of Bridges (SED)	3	Devang Patel	Only for MSED 3rd Semester students	08.30-10.30, 08.30-10.30	Monday, Wednesday	Advanced Technology, History, Theory and Criticism
	5580	Studio-3, Special Structures (SED)	6	Aanal Shah, Rakesh Shah, Hiten Shah, Neha Banker, Devang Patel	Only for MSED 3rd Semester students	10.30-13.30, 10.30-13.30	Wednesday, Thursday	Advanced Technology, Technical Drawing and Visualization

MANDATORY COURSES

POSTGRADUATE PROGRAM IN ENGINEERING DESIGN
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**5584**	Introduction to Urban Infrastructure Systems (IED)	3	Tushar Bose, Shailaja Pandit	Open to all PG students	08.30-09.30, 08.30-10.30	Tuesday, Wednesday	Services and Advanced Technology,Technology
	5585	Statistics (IED)	3	Bhargav Adhvaryu	Open to all PG students	14.30-16.30	Wednesday	Science and Mathematics, Research
	5586	Economics and Finance (IED)	3	Pramod Yadav	Open to all PG students	08.30-11.30	Friday	Economics and Development,Management
	5587	Ward-level Infrastructure Design Studio (IED)	6	Tushar Bose, Shailaja Pandit, Anal Sheth	Only for MIED 1st Semester students	10.30-13.30, 10.30-13.30	Monday, Wednesday	Studio
III	**5589**	Infrastructure Policy and Regulations (IED)	3	Pramod Yadav	Open to all PG students	08.30-11.30	Thursday	Management, Policy and Legislation
	5590	Contracts and Procurement (IED)	3	Reshma Shah	Open to all PG students	14.30-16.30	Monday	Management, Technology
	5591	Project Management (IED)	3	Shridip Shah,Ajit Desai	Open to all PG students	08.30-09.30, 08.30-09.30, 14.30-16.30	Wednesday, Friday, Friday	Management, Technology
	5592	Transport Infrastructure Design (IED)	6	Bhargav Adhvaryu, Anuj Malhotra	Only for MIED 3rd Semester students	10.30-13.30, 10.30-13.30	Monday, Friday	Studio

MANDATORY COURSES

POSTGRADUATE PROGRAM IN GEOMATICS
MONSOON SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**5596**	Remote Sensing: Theories & Practice	3	S.S.Palsule, Bindi Dave	None	09.30-11.30, 09.30-11.30	Monday, Friday	Technology,Science and Mathematics
	5597	Geographical Information Systems	3	P.D.Yadav,Hardik Panchal	None	14.30-16.30, 14.30-15.30	Wednesday, Thursday	Science and Mathematics, Computer Application and Programming
	5598	Spatial Database	3	Jitendra Dadhania, Darshana Pawal	Open to all PG students	08.30-10.30, 09.30-10.30	Tuesday, Wednesday	Technology,Science and Mathematics, Computer Application and Programming
	5599	Geo-spatial Vizualization	6	Anjana Vyas, Komal Parikh, Darshana Rawal	Only for Geomatics 1st Sem students	11.30-13.30, 10.30-13.30, 10.30-13.30, 11.30-13.30	Monday, Wednesday, Thursday, Friday	Science and Mathematics,Computer Application and Programming
III	**5604**	Digital Photogrammetry and Terrain Modeling	3	S.S. Palsule, Bindi Dave	Students with Optical and Digital Image Processing Knowledge	15.30-17.30, 09.30-11.30	Tuesday, Thursday	Computer Application and Programming, Science and Mathematics
	5605	Geomatics Project Planning and Management Techniques	3	A. R. Dasgupta, Shaily Gandhi, Anjana Vyas	Students with GIS Knowledge	14.30-15.30, 14.30-16.30	Monday, Wednesday	Management
	5606	Web GIS and Server Architecture	3	Sunit Surti, Darshana Rawal	Students with knowledge of Programming	08.30-09.30, 08.30-09.30, 08.30-09.30	Tuesday, Thursday, Friday	Computer Application and Programming, Technical Drawing and

III					Language and GIS			Visualization
	5607	Enterprise GIS	6	Charanjeet Singh, Shaily Gandhi, Hardik Panchal	Only for 3rd Sem Geomatics students	10.30-13.30, 11.30-13.30, 11.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Computer Application and Programming, Technical Drawing and Visualization

ELECTIVE COURSES

FACULTY OF TECHNOLOGY
MONSOON SEMESTER – 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
I	**5028**	Free Hand Sketch	2	Soha Trivedi	None	16.30-18.30, 16.30-18.30	Monday, Wednesday	Visual Communication and Performing Arts
	5029	Port & Harbours	3	S. C. Naik	None	15.30-18.30	Friday	Technology
	5030	Lift, Fire Fighting & Elevators	3	Bipin Shah	None	15.30-18.30	Friday	Technology
	5031	Disaster Management	3	Bharat Patel	None	16.30-19.30	Monday	Management
	5034	Building Services (Electrical)	2	N. J. Naidu	None	16.30-18.30	Tuesday	Technology
	5037	Foundation Engineering	3	Bhargav Tewar	Basic Course in Geotechnical Engineering	17.30-18.30, 16.30-18.30	Tuesday, Wednesday	Technology
	5084	Communication Skills	2	Pervin Doctor	None	16.30-18.30	Thursday	Language and Communication
	5085	Prestressed Concrete	2	Anal Sheth	UG-FT 3rd year onwards and PG-FT students only	16.30-18.30	Wednesday	Technology
	5086	Solid Waste Management	2	Dipsha Shah	None	14.30-16.30	Friday	Management
	5087	Advance Survey & Mapping	2	Komal Parikh, Anjana Vyas	Basic knowledge of Surveying & after completion of 1st year	16.30-18.30	Thursday	Technology
	5088	Tools, Equipment & Planning	2	Prakash Akalkotkar	None	16.30-18.30	Monday	Technology
I	**5505**	Microsoft Project (MSP)	3	Jyoti Trivedi, Ajit Desai	Open to PG students who have a knowledge of Basics of	08.30-10.30, 14.30-18.30	Monday, Thursday	Practice

					Planning and Scheduling tools			
	5506	SEZ Planning and Management	2	Kailash Bahuguna	Open to all PG students	08.30-10.30	Thursday	Management
	5570	ERP (Enterprise Resource Planning)	2	Ashwin Oza	Open to all PG students	08.30-10.30	Monday	Practice
I	**5571**	Primavera	3	Jyoti Trivedi, Ajit Desai	Open to PG students who had a knowledge of Basics of Planning and Scheduling tools	08.30-10.30, 14.30-18.30	Tuesday, Wednesday	Practice
	5572	Economics	2	Dhaval Mehta	Open to all PG students	14.30-16.30	Tuesday	Economics and Development
	5512	Construction Failures (SED)	3	R.J.Shah	Only for MSED 1st Semester students	12.30-13.30, 11.30-13.30	Wednesday, Friday	Advanced Technology History, Theory and Criticism
	5576	Structure, Material and Form (SED)	2	V.R.Shah	Open to all PG students	14.30-16.30	Wednesday	Advanced TechnologyHistory, Theory and Criticism
I	**5581**	Engineering Aspects of Sustainable Design (SED)	2	Bhairav Patel	Open to all PG students	08.30-10.30	Friday	Advanced Technology
	5582	Professional Practice for Engineers (SED)	2	Bhairav Patel	Open to all PG students	10.30-12.30	Monday	Practice
	5583	Surface Structures (SED)	2	Ashish Shah	Only for MSED 3rd Semester students	14.30-16.30	Friday	Advanced TechnologyHistory Theory and Criticism
	5520	Port Planning and Management (IED)	2	Mihir Das	Open to all PG students	08.30-10.30	Monday	Services and Advanced Technology, Technology
I	**5588**	Urban Information Systems (IED)	2	Charanjeet Singh	Only for FT PG students	08.30-10.30	Thursday	Computer Application and Programming, Technology

I	**5593**	Environment Impact Assessment for Infrastructure Projects (IED)	2	Tushar Bose	Open to all PG students and UG 4th & 5th year students	08.30-10.30	Monday	Environment, Policy and Legislation
	5594	Real Estate Design and Management (IED)	2	Charanjeet Singh	Open to all PG students	08.30-10.30	Tuesday	Services and Advanced Technology, Management
	5595	Environment Modeling (IED)	2	Tushar Bose, Saswat Bandyopadhyay	Open to PG students who have the knowledge of basic mathematics and interest in environment sciences	08.30-10.30	Friday	Science and Mathematics, Technology
I	**5531**	Graph Theory and Applications	3	Jimmy Shethna	None	16.30-18.30, 16.30-17.30	Wednesday, Friday	Science and Mathematics,
	5600	Mapping and Cartography	3	Nartan Rajpriya, Hardik Panchal	None	16.30-17.30, 15.30-16.30, 15.30-16.30	Tuesday, Thursday, Friday	Computer Application and Programming, Technical Drawing and Visualization
	5601	Software Design and Development	2	Shaily Gandhi	Students with Computer Programming Aptitude	09.30-10.30, 14.30-15.30	Thursday, Friday	Computer Application and Programming
	5602	Mathematics & Statistical Methods for Spatial Analysis	2	Jimmy Shethna	None	16.30-18.30	Monday	Science and Mathematics
	5603	Spatial Planning, Urbanism and Geomatics	3	Anjana Vyas, Hardik Panchal	None	15.30-16.30, 14.30-16.30	Monday, Tuesday	Computer Application and Programming, Technical Drawing and Visualization

I	**5608**	Crowd Sourcing and Community GIS	3	Darshana Rawal	None	15.30-17.30, 09.30-10.30	Monday, Tuesday	Computer Application and Programming, Science and Mathematics
	5609	LiDAR Technology and Applications	2	A.R.Dasgupta, Bindi Dave	Open for PG students with Remote Sensing Background	14.30-15.30	Tuesday, Thursday	Technology,Computer Application and Programming
	5610	Big Data Analytics	2	Virat Kothari, Shaily Gandhi	Students with knowledge in Computer Programming	08.30-10.30	Wednesday	Computer Application and Programming, Advanced Technology

COURSE DETAILS

Advanced Technology

5075 - Construction Technology III
Credits: 4

Type: Lecture Type 2

Instructor/s: Japan Shah, Hitendra Soni, Tushar Patel

This course engages students with the knowledge of various materials, methods used in construction and different services for industrial buildings. It covers topics such as steel structures, steel work, false ceilings, ventilation, thermal insulation, and large span RCC roofs. All topics will be enhanced with related drawing and documentation practice.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 10.30-13.30, 08.30-09.30, 08.30-09.30

Days: Monday, Thursday, Friday

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5512 - Construction Failures (SED)

Credits: 3

Type: Lecture

Instructor/s: R.J.Shah

Understanding the causes of construction failures, factors affecting durability of concrete structures, professional & legal responsibilities to reduce frequency and severity of construction failures, Investigation & evaluation of distressed structures, materials & technologies for the repair, strengthening and stabilization of structures.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 1st Semester students

Time: 12.30-13.30, 11.30-13.30

Days: Wednesday, Friday

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5573 - Advanced Design of Reinforced Concrete Structures (SED)

Credits: 4

Type: Lecture Type-2

Instructor/s: Aanal Shah, Bhargav Tewar

History of reinforced concrete structures, Stress strain relationship, Design philosophy - a quick review and the laboratory testing for understanding the various parameters of concrete. Working out the possible structural systems and analyzing, designing and detailing the same, Torsion design, Serviceability criteria, different types of Foundation and Staircase design.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-11.30, 14.30-16.30

Days: Friday, Friday

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5574 - Advanced Design of Steel Structures (SED)

Credits: 4

Type: Lecture Type-2

Instructor/s: Dhara Shah, Parth Thaker

Historical development of steel, properties and stress strain curve for steel, design philosophy and methods of analysis, types of connections - simple and movement resistant, tension members, compression members, flexural members, giving the guidelines to the students regarding corrosion protection, fire resistance, fatigue resistance and torsion concepts. Site visits of industrial structures and preparing drawings and details of the same.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 14.30-16.30, 09.30-12.30

Days: Tuesday, Thursday

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5575 - Advanced Method of Analysis (SED)

Credits: 3

Type: Lecture

Instructor/s: Rupal Shah

This lecture course teaches accurate and approximate methods of advanced

structural analysis for frame structures, along with their application, including both plastic analysis and finite element method. The finite element method incorporates the practical application of the same using software.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-10.30, 08.30-09.30

Days: Monday, Wednesday

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5576 - Structure, Material and Form (SED)

Credits: 2

Type: Lecture

Instructor/s: V.R.Shah

Structure Material and Form – How they are selected, manipulated or associated in design to produce the outcome. Therefore the understanding of form, material and structure is very important for designers. Material properties and structural actions are vital for development of form. The course begins with developing the understanding of structural actions, properties of structural materials and form which will lead to deeper understanding of interrelationships of these three ingredients. The course will be conducted as lecture presentations interspersed with relevant assignments.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 14.30-16.30

Days: Wednesday

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5577 - Design of Stack like Structures (SED)

Credits: 3

Type: Lecture

Instructor/s: Aanal Shah, Rakesh Shah

Understanding the different codal provisions of stack like structures such as silos and chimneys. Appraising students regarding the technical requirements and design philosophy. Design and detailing of silos and chimneys considering the latest codal provision of different countries. Introduction to steel chimneys, steel silos, prestressed silos and special silos such as compartment silos.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 08.30-09.30, 08.30-10.30

Days: Tuesday, Thursday

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5578 - Marine Structures (SED)

Credits: 3

Type: Lecture

Instructor/s: Dhara Shah, Mehul Patel

Imparting the knowledge of port and harbor structures, their classification, and the importance and methods of coastal protection work. This includes characteristics of ship, wind, waves and tides, with an introduction to tsunamis. It also covers the available guidelines for design and detailing aspects of jetty, gravity wharf walls and breakwater structures.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 10.30-13.30

Days: Friday

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5579 - Design of Bridges (SED)

Credits: 3

Type: Lecture Type-2

Instructor/s: Devang Patel

Introduction to prestressed concrete structures. Implication of prestressed concrete in modern structures such as bridges. History of bridges, Introduction to modern bridges and their types. Understanding the hydrology and various parameters associated with it. Analysis, design and detailing of bridge structures.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 08.30-10.30, 08.30-10.30

Days: Monday, Wednesday

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5580 - Studio-3, Special Structures (SED)

Credits: 6

Type: Studio

Instructor/s: Aanal Shah, Rakesh Shah, Hiten Shah, Neha Banker, Devang Patel

An extension of studio-1,2 wherein each student is dealing with a special structure. Design and detailing aspects of special structures: chimneys, silos, industrial structures and water tanks. Individual project from one of the special structures listed above is allocated to each student for which they analyze, design and detail the whole structure. A site visit is arranged to understand the hidden aspects of design, construction and detailing.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 10.30-13.30, 10.30-13.30

Days: Wednesday, Thursday

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5581 - Engineering Aspects of Sustainable Design (SED)

Credits: 2

Type: Lecture

Instructor/s: Bhairav Patel

The objective of this course is to introduce the concepts of sustainability of structures to students and sensitize them towards the role of civil and structural engineers towards creating sustainable built environment. Introduction to sustainability, Importance of sustainability in the built environment, Importance of integrated design, Sustainability in Indian scenario, Vernacular structures in context of sustainability, Sustainability and role of engineers.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-10.30

Days: Friday

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5583 - Surface Structures (SED)

Credits: 2

Type: Lecture

Instructor/s: Ashish Shah

To impart basic knowledge to the structural analysis and design of various types of shells and plates. This will include the history, form, development of basic geometry, general methods of analysis, design of rotational shells, translational shells and folded plates with detailing.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 14.30-16.30

Days: Friday

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5610 - Big Data Analytics

Credits: 2

Type: Lecture

Instructor/s: Virat Kothari, Shaily Gandhi

Big Data is a term used to describe the exponential growth and availability of structured and unstructured data including emails, social media, videos, texts etc. Course will introduce various Big Data software e.g. Hadoop, MongoDB, Splunk etc. Student will learn to configure their system to process big data application through series of theory and practical sessions.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Students with knowledge in Computer Programming

Time: 08.30-10.30

Days: Wednesday

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Computer Application and Programming

1072 - Modeling, Simulations and Games

Credits: 2

Type: Lecture

Instructor/s: Nitin Raje

This course is an introduction to simulation modelling and games. It targets many critical questions, what is modelling? What is simulation? How are games related to these procedures? What are the benefits and pitfalls in modelling and simulation? What types of problems are suitable for simulation? The course is a series of lectures that are set out towards examining a number of approaches that have evolved and are predominant today together with several cases where these have been applied. These generally include areas where design decisions need to be evaluated with sensitivity to wider perspectives on human behaviour, ecology, environment, social sciences and technology. The course envisages making students familiar with the entire process, beginning from an initial problem set to the results and visualization techniques that are employed, taking examples from various spatial scales.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 4th year UG onwards + PG

Time: 08.30-10.30

Days: Thursday

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2025 - Digital Technology - I

Credits: 3

Type: Workshop

Instructor/s: Amal Shah

This workshop explores the use of the digital medium as a tool of both design and its representation. It introduces the students to the basics of three dimensional form exploration with the help of Sketch Up software, and to techniques of two dimensional drawings with the help of AutoCad.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: 2nd year and above Undergraduate Students.

Time: 08.30-10.30, 08.30-10.30, 08.30-10.30

Days: Monday, Wednesday, Friday

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4504 - G.I.S. for Planners

Credits: 2

Type: Lecture

Instructor/s: Anjana Vyas

Geographical Information System (GIS) and Remote Sensing are an important skill for planners. This course presents an overview of GIS and the related topics of remote sensing and digital image processing, explaining issues of scale, data quality, and GPS. Students have hands-on practice with available software for image processing and GIS, and are expected to learn the basic concepts underlying this technology, and their application in decision making.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 14.30-16.30

Days: Thursday

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4571 - Microsoft Project

Credits: 2

Type: Lecture

Instructor/s: Ajit Desai

Review of basic theory of network analysis to understand its application in software. All tools of software shall be explained to students to enable them to handle large projects efficiently. Emphasis will be given to Multiple projects handling, Tracking of projects, Earned value analysis, Customizing software, Use of macros etc.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG students

Time: 14.30- 16.30

Days: Monday

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5588 - Urban Information Systems (IED)

Credits: 2

Type: Lecture

Instructor/s: Charanjeet Singh

The course provides insights as to how emerging information and communication technologies are impacting urban development and how such decision-supporting tools can be used to understand complex relationships between land use, transportation, environment etc. Much of the coursework involves is focused towards integrating geographic information systems (GIS), multimedia technologies and the design and prototyping of urban planning tools.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for FT PG students

Time: 08.30-10.30

Days: Thursday

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5597 - Geographical Information System

Credits: 3

Type: Lecture

Instructor/s: P.D.Yadav, Hardik Panchal

his course introduces principles, concepts and applications of Geographic Information Systems (GIS): a decision support tool for managers of spatial information. Database development, manipulation and spatial analysis techniques for information generation will be taught. Students will have the scope of using GIS for applications in their related fields such as natural resource management, environment, civil engineering, agriculture, information system, etc.; will be discussed through mini projects and laboratory exercise.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 14.30-16.30, 14.30-15.30

Days: Wednesday, Thursday

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5598 - Spatial Database

Credits: 3

Type: Lecture

Instructor/s: Jitendra Dadhania, Darshana Rawal

The aim of this course is to enable students to develop a good understanding of the principles and techniques of relational database design as they apply to spatial databases; apply these principles and techniques in designing and building spatial databases; and use spatial databases to perform common types of queries and spatial analysis.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Open to all PG students

Time: 08.30-10.30, 09.30-10.30

Days: Tuesday, Wednesday

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5599 - Geo-spatial Visualization

Credits: 6

Type: Studio

Instructor/s: Anjana Vyas, Komal Parikh, Darshana Rawal

This studio on inventoring and mapping of green space will focus on teaching the students techniques of surveying, inventorying and mapping in the GIS environment while taking a case study of gardens of the city of Ahmedabad. Learn how to use Total Station, GPS, Satellite Imagery and GIS through large scale hands-on and practical exercises. Questions like, how to map, what to map, and why to map will be addressed with the help of field visits and extensive survey. The major emphasis will be given to align the maps and applications with the database requirements; downloading the maps and application configuration with collected data and deploy the maps for decision support system.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Only for Geomatics 1st Sem Students

Time: 11.30-13.30, 10.30-13.30, 10.30-13.30, 11.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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5600 - Mapping and Cartography

Credits: 3

Type: Lecture

Instructor/s: Nartan Rajpriya, Hardik Panchal

Through this course students confront realistic problem scenarios that incorporate skills and concepts as

creating symbolization schemes, coordinate systems and map projections, creating isoline and other terrain representations, interpolation, classification schemes, multivariate representation and representation of data uncertainty. Those who successfully complete the course are able to design and produce effective reference and thematic maps using GIS software, and can interpret and critique maps and related information graphics.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 16.30-17.30, 15.30-16.30, 15.30-16.30

Days: Tuesday, Thursday, Friday

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5601 - Software Design and Development

Credits: 2

Type: Lecture

Instructor/s: Shaily Gandhi

This course provides the foundation for understanding the basic concepts of programming. It intends to develop the programming capability of students in terms of providing customized Geospatial solutions in for various applications.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Students with Computer Programming aptitude

Time: 09.30-10.30, 14.30-15.30

Days: Thursday, Friday

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5603 - Spatial Planning, Urbanism and Geomatics

Credits: 3

Type: Lecture

Instructor/s: Anjana Vyas, Hardik Panchal

The students will gain knowledge about the Geographic Information Science & Technology and its relevance for contemporary spatial planning and urbanism at various spatial and temporal scale levels. This will contain the processing of geospatial data, identify and use of various sources of geospatial data, remote sensing data and become familiar with the concept and application potential of Spatial Decision Support Systems and Spatial Planning Support Systems.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 15.30-16.30, 14.30-16.30

Days: Monday, Tuesday

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5604 - Digital Photogrammetry and Terrain Modeling

Credits: 3

Type: Lecture

Instructor/s: S.S. Palsule, Bindi Dave

The objective of this subject is to learn science and technology of obtaining spatial measurements in three-dimension, system for terrain modelling and other geometrically reliable derived topographic structures at required scale from space-borne /air-borne sensor data. The recent digital photogrammetric soft copy system gives analytical procedures which can produce output from the digital data by obtaining distances, areas and elevation.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Students with Optical and Digital Image Processing Knowledge

Time: 15.30-17.30, 09.30-11.30

Days: Tuesday, Thursday

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5606 - Web GIS and Server Architecture

Credits: 3

Type: Lecture

Instructor/s: Sunit Surti, Darshana Rawal

This course is designed as an introduction to Web GIS, to the programming concepts underlying construction and implementation of high quality web mapping applications. Instruction is provided in commonly used open source GIS and related programming tools for customizing web-based mapping applications, and development of distributed web services for GIS. In addition, an overview of common proprietary web mapping software like ERSI ArcServer is also taught.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Students with knowledge of Programming Language and GIS

Time: 08.30-09.30, 08.30-09.30, 08.30-09.30

Days: Tuesday, Thursday, Friday

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5607 - Enterprise GIS

Credits: 6

Type: Studio

Instructor/s: Charanjeet Singh, Shaily Gandhi, Hardik Panchal

The primary objective is to help students develop knowledge and skills necessary to conceptualize and develop a web based GIS application that contributes to City planning and management. The students will work with various web-authoring platforms to develop prototype for a dynamic GIS platform wherein community data will be captured, compiled and collated using web.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Only for 3rd Sem Geomatics students

Time: 10.30-13.30, 11.30-13.30, 11.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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5608 - Crowd sourcing and Community GIS

Credits: 3

Type: Lecture

Instructor/s: Darshana Rawal

A popular system 'Crowd sourcing' is the practice of obtaining needed services, ideas, or content by soliciting contributions from a large group of people, also from an online community. It represents a new intersection of people and technology with challenges and opportunities. It incorporates issues of developing effective design for human factors and human-computer interface, economics and ethics. The subject aims to motivate students to develop real-time projects through Crowd sourcing.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 15.30-17.30, 09.30-10.30

Days: Monday, Tuesday

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5609 - LiDAR Technology and Applications

Credits: 2

Type: Lecture

Instructor/s: A.R.Dasgupta, Bindi Dave

The course will cover principles of airborne and terrestrial laser scanning, processing of 3D point clouds, visualization of point clouds, data calibration, registration, error estimation, extraction of DTM and DEM, detection of buildings and extraction of 3D building models, engineering applications like 3D CAD, applications in change detection, deformation analysis, land erosion, landslides, power line and canal monitoring, heritage structures and archaeological studies.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Open to PG students with Remote Sensing background

Time: 14.30-15.30

Days: Tuesday, Thursday

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5610 - Big Data Analytics

Credits: 2

Type: Lecture

Instructor/s: Virat Kothari, Shaily Gandhi

Big Data is a term used to describe the exponential growth and availability of structured and unstructured data including emails, social media, videos, texts etc. Course will introduce various Big Data software e.g. Hadoop, MongoDB, Splunk etc. Student will learn to configure their system to process big data application through series of theory and practical sessions.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Students with knowledge in Computer Programming

Time: 08.30-10.30

Days: Wednesday

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Crafts

2522 - Craft: Processes, Collaboration and Cultural Perception

Credits: 4

Type: Studio

Instructor/s: Jay Thakkar, Kireet Patel

The first module introduces students to the larger overview of crafts in reference to India wherein the focus will be on study of the crafts related to the Interior Architecture with a cluster approach. The students will understand various processes associated with Craft and Craft Practices like human resource, skills, material, tools, techniques, systems of application and production, supply chain mechanisms and markets. These issues will be understood in reference to the traditional and current practices of craft by means of lectures, presentations,discussions,mapping,documentation and field work to various places in Gujarat. This module further looks at Craft-Design Collaboration. Through the learning from the first module, student will evolve an understanding of current needs and aspiration of craftspeople and define the role of design within the craft practices. They will engage with crafts through the process of design intervention. This will be done through hands-on exploration to acquire the material understanding and skills of making and to gain an intrinsic understanding of the craft-design process.

The second module emphasizes upon the tangibles and intangibles related to craft, focusing on the concept of crafts in Indian society. The cultural perceptions, ethos and values related to craft are studied with an understanding of cross-cultural influences, and the cultural and associational relevance of craft are discussed in detail. With craftspeople and the community at the core of inquiry, the course involves field visits to craft clusters and various communities. Also the cultural and associational relevance and importance of craft in the traditional built environment will be discussed in detail.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 10.30-13.30, 14.30-17.30

Days: Thursday, Thursday

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Economics and Development

4007 - Demography and Data Systems

Credits: 2

Type: Lecture

Instructor/s: Vishal Dubey, Ravi Sannabhadti

The course seeks to cover the spatial aspects and temporal dynamics of population, including the theoretical models, determinant of population growth & migration. The curriculum is designed to integrate the demographic variability across the different spatial level featuring interactions among human and physical geographical processes.

Implication of quantitative techniques & contextualization to Indian data sources for various socio-economic and demographic variables will be also covered in the curriculum.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 08.30-10.30

Days: Friday

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4009 - Economics -1

Credits: 2

Type: Lecture

Instructor/s: Anurima Mukherjee

This is an introductory course in economics for undergraduate students of planning. It intends to provide an understanding of the basic concepts and principles of microeconomics and its relevance to planning, wherever possible. The course discusses theory of consumer behavior, theory of the firm, market equilibrium and market structures, market failure and finally markets and welfare.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Only for B Plan, 5th Semester

Time: 14.30-16.30

Days: Monday

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4043 - Poverty and Inclusive Planning

Credits: 2

Type: Lecture

Instructor/s: Ravi Sannabhadti

This course enables the students to understand the poverty from a planner's perspective. By the end of the course, students will understand the conditions of poverty, the dynamics of poverty, and the complexities involved in inclusive planning. This course will be in lecture mode involving seminars, case studies and individual paper presentations.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 08.30-10.30

Days: Wednesday

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4502 - Economics

Credits: 2

Type: Lecture

Instructor/s: R. Parthasarathy, Anurima Mukherjee Basu, Vishal Dubey

This lecture course provides students with basic understanding of the subject matter of economics and its relevance in 'planning', introducing basic concepts and theories drawn from economics as commonly applied in the field of 'planning'. The course introduces students to microeconomic concepts, certain macroeconomic issues, and development policies and issues of India. It also familiarizes them with current issues in development and economic planning in India and the changing paradigms thereof.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 08.30-10.30

Days: Wednesday

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4543 - Rural Development

Credits: 2

Type: Lecture

Instructor/s: C.N.Ray

The students of this course are expected to be able to understand the contemporary rural dynamics within the context of Urban and Regional planning and also help them to work as a planner successfully.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban and Regional Planning specialization students, Open to all PG students

Time: 14.30-16.30

Days: Monday

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4546 - Environmental Economics

Credits: 2

Type: Lecture

Instructor/s: R. Parthasarathy

The course commences with debates on 'limits to growth' and 'resources debates' and travels through the concepts and cases of public goods, externalities, market failures, discount rates and sustainability. The various environmental issues are discussed along with solutions to the problems like the Steady State analysis and Maximum Principle of Optimal Control, Euler's and Coase theorems and Hotelling conditions. The policy solutions are discussed with cases on tradable pollution permits and taxes.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Environmental Planning specialization students, Open to all PG students

Time: 14.30-16.30

Days: Tuesday

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4554 - Infrastructure Projects Structuring and Finance

Credits: 2

Type: Lecture

Instructor/s: Saswat Bandyopadhyay, Visiting Faculty

This lecture course looks at the basics to project formulation, elements and techniques of project formulation, projection evaluation, and financing and cost components of infrastructure. The course introduces students to elements that support the use of project finance, such as sources of capital, financial structuring, financial modelling, accounting considerations, and tax considerations.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Infrastructure Planning specialization students, Open to all PG students

Time: 16.30-18.30

Days: Monday

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4556 - Transport Economics and Appraisal

Credits: 2

Type: Lecture

Instructor/s: Shivanand Swamy

This lecture course extends economic concepts and methodologies to the transport sector. It helps students to appreciate true costs of transport and to measure them. The course deals with transport demand and supply concepts, costing and pricing of transport services, economic appraisal principles and transport regulation.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban Transport Planning and Management specialization students, Open to PG Planning. Economics in 1st Sem

Time: 16.30-18.30

Days: Tuesday

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4557 - Transport Finance/ Financing Urban Transport

Credits: 2

Type: Lecture

Instructor/s: Shivanand Swamy, Visiting Faculty

This course focuses on evolving a framework to assess the adequacy of current level of urban transport investments, estimate gaps, identify and evaluate alternative sources of financing in terms of their applicability, adequacy and sustainability. In addition to lectures on theory/concepts, and exercises on financing requirements and option analysis, a series of city/project case study presentations and discussions will be organized.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban Transport Planning and Management

specialization students, Open to PG Planning, Public and Project Finance in 2nd Sem

Time: 14.30-16.30

Days: Thursday

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4572 - Development Innovation II

Credits: 2

Type: Lecture

Instructor/s: Dinesh Mehta, Meera Mehta

This seminar course provides a platform for exchange on innovative development thoughts and experiences from around the world. Three paradigms are covered: a) Inclusive development that combines economic development with wider 'Human Development', b) Inclusive markets and finance to reach the 'unreached' and widening livelihood opportunities, and c) Inclusive cities with access to public spaces and basic services. Students will work individually on a topic from any one of the three themes through the semester, prepare a research paper, participate in discussions on topics by all the students as well as take part in discussions based on specific readings.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Students who had cleared the subject Development Innovation I Elective

Time: 16.30-18.30

Days: Tuesday

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5017 - Engineering Economics

Credits: 3

Type: Lecture

Instructor/s: Rajesh Matta

This lecture course exposes students to the concepts of engineering economics, so that they are able to apply these concepts toward choosing the best alternative from those available. Topics covered are basic principles of engineering economy, equivalence, financial mathematics, interest tables, how to judge the attractiveness of proposed investments, and techniques for the evaluation of alternatives.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 08.30-09.30, 08.30-09.30, 08.30-09.30

Days: Wednesday, Thursday, Friday

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5572 - Economics

Credits: 2

Type: Lecture

Instructor/s: Dhaval Mehta

Understanding of the prevailing business and economic environment has become a necessity for everybody concerned. The rapid changes that are taking place in the domestic and international spheres have a wide repercussion on the policy making of the country concerned. The process of globalization has its contents and discontents also. Therefore, students need to understand this aspect more carefully and duly as it will affect the stakeholders more often and the person concerned has to adjust the policy thereto.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Open to all PG students

Time: 14.30-16.30

Days: Tuesday

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5586 - Economics and Finance (IED)

Credits: 3

Type: Lecture

Instructor/s: Pramod Yadav

This lecture course introduces students to the basics of economics, both micro and macro, and the basics of finance. Understanding of these basic concepts will help them appreciate the dynamics of the infrastructure sectors. Applications to infrastructure are covered using case studies. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-11.30

Days: Friday

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Environment

1008 - Climate Responsive Design

Credits: 3

Type: Lecture

Instructor/s: Vishwanath Kashikar

This lecture course begins with an introduction to concepts and methods of measuring climate and human comfort as the given outdoor compared with the desired indoor conditions. Various design strategies and methods at all scales of design (site planning, architecture, interior design) are discussed. Short design problems to check indoor comfort conditions through manual and computer based simulation are given.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 2nd year and above UG students and PG students

Time: 14.30-17.30

Days: Thursday

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1513 - Natural Sciences - I

Credits: 2

Type: Lecture

Instructor/s: Deepa Maheshwari, N. Madhukara

This lecture course introduces students to key concepts of natural sciences, with a focus on geology and soils. Students move through geological processes from atmosphere to ocean floors, to develop an understanding of the geological cycle which explores tectonics, geological agents, weathering and the formative capacity of water, among other concepts. The course will further address soil forming processes, the properties of the material and surveying and mapping, with emphasis on the particulars of the Indian context.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all P G students

Time: 09.30-10.30, 09.30-10.30

Days: Monday, Tuesday

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1562 - Sustainable Systems and Processes II

Credits: 3

Type: Lecture

Instructor/s: Urvi Desai

Growth and development over centuries have led to creation of more complex systems and processes, where the nature of 'settlement' itself may be redefined. Exchange of information and flow of materials have expanded their sphere of operations tremendously. The available natural resources, their distribution and consumption systems further impact these flows. This Seminar Course focuses on understanding these processes by following the material and information flows in different spheres of human habitation.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch (SA) Semester III, open to postgraduates and 4th and 5th Year UG students

Time: 14.30-16.30

Days: Tuesday

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1563 - Natural Sciences - II

Credits: 2

Type: Lecture

Instructor/s: Deepa Maheshwari, S.S. Rao, Sandip Patil

This course develops student knowledge of natural sciences through the study of botany, hydrology and climatology. Students learn principles of plant classification, biological processes, and economic values. They study subjects such as hydrological cycles, aquifer recharge areas, rainfall patterns and groundwater management, and also look at weather patterns, atmosphere, with focus on climate zones of India as a base for the understanding of climate data, which they gather and analyze using on-site exercises and equipment. Finally, students will attempt to analyze the impact of both natural and manmade features on climate.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all P G students

Time: 08.30-10.30

Days: Wednesday

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1570 - Economics of Environment

Credits: 2

Type: Lecture

Instructor/s: Niti Mehta

Economics of environment provides tools, techniques and case studies for evaluating the economic valuation of environmental parameters, impacts of human activities, various development measures, polluting activities, and natural processes.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all PG students

Time: 16.30-18.30

Days: Thursday

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2523 - Building Energy Efficiency - I

Credits: 4

Type: Studio

Instructor/s: Sanyogita Manu, Munjal Bhatt

The first module of this course aims at developing a broad understanding of issues related to building energy efficiency and its significance in dealing with larger environmental challenges. It focuses on understanding the thermal, visual and aural environment via empirical and scientific approaches, treating the building as a complex and integrated system. It also covers theoretical aspects of building performance through lenses such as policy, technology, design and management. The second module guides students to explore energy performance in buildings with scientific rigour, to arrive at appropriate design decisions in real life problems. Students use hands-on exercises to learn about the principles of building physics and human comfort, employing as tools the various approaches available to a building designer.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 10.30-13.30, 14.30-17.30

Days: Friday, Friday

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4038 - Ecology, Environment & Planning

Credits: 2

Type: Lecture

Instructor/s: Subhrangsu Goswami

Planners play a vital role in decision-making processes concerning the future of human settlements, resource management, environmental protection, human health and well-being, economic development, and many other areas. This course is therefore designed to study the relationships and interactions between dynamic natural and human systems. The objective is to make students sensitive to ecological and environmental challenges through in-depth knowledge and understanding of the relationship between ecology, environment and Planning.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Only for B Plan students

Time: 14.30-16.30

Days: Tuesday

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4044 - Environmental Legislations-1

Credits: 2

Type: Lecture

Instructor/s: Neeru Bansal

The course aims to provide an understanding of environmental laws and policy for environment management particularly with reference to Indian context. The institutional framework for environment governance, environmental standards and International Conventions for the Protection of Environment in major thematic areas will be covered. Case studies will be discussed to make students understand the practical implications of laws.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 08.30-10.30

Days: Thursday

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4046 - Environmental Planning (tools and methods)

Credits: 2

Type: Lecture

Instructor/s: Ashwani Kumar

Environmental Sustainability, an emerging challenge calls for forerunner tests on all development activities including infrastructure, urban and economic through 'Environmental Planning' approaches. The course aims to expose the participants to available tools namely Spatial Environmental Planning, Life Cycle Analysis, footprinting, Environmental Impact Assessment, Management Systems, Audits, Frameworks, guidelines etc. through lectures, assignments (cases) and discussions.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Should be from third/fourth year and they should have at-least one course (credited) on environmental science, sustainability or any other course on environment at U.G

Time: 14.30-16.30

Days: Tuesday

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4545 - Environmental and Social Impact Assessment

Credits: 2

Type: Lecture

Instructor/s: Ashwani Kumar

The prime aim of this lecture course is to create a theoretical base for ESIA, existing regulations, overview and applications of methods and techniques for environmental system analysis (e.g., water and air systems). For this, students are introduced to various tools. Environmental Impact Assessment (EIA) is a tool to evaluate the effects of a proposed activity, project and programme on the environment. ESIA is a multi-disciplinary concept which combines the principles of science, technology, management, sociology, health and economics to identify and evaluate the effects of a project or activity on both the natural environment and its socio-economic aspects.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Environmental Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Thursday

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4546 - Environmental Economics

Credits: 2

Type: Lecture

Instructor/s: R. Parthasarathy

The course commences with debates on 'limits to growth' and 'resources debates' and travels through the concepts and cases of public goods, externalities, market failures, discount rates and sustainability. The various environmental issues are discussed along with solutions to the problems like the Steady State analysis and Maximum Principle of Optimal Control, Euler's and Coase theorems and Hotelling conditions. The policy solutions are discussed with cases on tradable pollution permits and taxes.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Environmental Planning specialization students, Open to all PG students

Time: 14.30-16.30

Days: Tuesday

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4547 - Energy, Climate Change and Development

Credits: 2

Type: Lecture

Instructor/s: Minal Pathak

Inspite of efforts by the international agencies and national governments worldwide for committing to research, projects and developments and guiding for climate neutral development, integrating all of these into development is yet a challenge. The development sectors sensibly reducing GHGs to avoid the adverse effects of climate change, is the need of the day. This course is designed to provide understanding on environment, economic and social concerns along with the climate sciences, energy theory and development theory to achieve mitigation and adaption.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Environmental Planning specialization students, Open to all PG students

Time: 14.30-16.30

Days: Wednesday

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4548 - Environment & Quality of Life

Credits: 2

Type: Lecture

Instructor/s: Neeru Bansal

Quality of life is one of the most debated concerns across the globe. There are worldwide deliberations over the components and measurement of quality of life. Indian Constitution guarantees right to life and pollution-free environment as fundamental right. The course will focus on the various aspects of environment and quality of life and will discuss the instruments available to ensure it.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Environmental Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Tuesday

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4555 - Energy Infrastructure

Credits: 2

Type: Lecture

Instructor/s: Minal Pathak, Mona Iyer

The course aims to develop an understanding of energy supply and demand, dynamics of conventional and renewable energy resources, economy and environment concerns from a global scale to national and sub-national scale. With reference to the power sector in India, it discusses the institutional and policy related aspects including the current supply and demand, reforms from monopolistic monolith structure to unbundled structure, privatization, tariffs and regulations. On the demand side, the course highlights issues of urban energy use and efficiency in buildings, transportation and industry. Finally, it touches upon the energy environment linkages, climate change and energy access, all of which form a part of planning and managing energy for sustainable habitats.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Infrastructure Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Tuesday

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4562 - Environmental Laws and Policy

Credits: 2

Type: Lecture

Instructor/s: Neeru Bansal

The course would discuss national environmental policy and the laws dealing with conservation of natural resources and for prevention & control of environmental pollution. International Conventions for the Protection of Environment in major thematic areas will be discussed. The course would include governance structure at central and state level for implementing environmental laws in India. It would also highlight the legal remedies available for environmental protection and would discuss some landmark legal cases.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to to PG students

Time: 08.30-10.30 14.30-16.30

Days: Wednesday Thursday

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4563 - Industrial Ecology

Credits: 2

Type: Lecture

Instructor/s: Anil Roy

The subject of industrial ecology would entrust planning professionals to understand how the industrial system works, its interaction with the Biosphere and how it could be regulated. It would also help planning students to reorient the industrial activities on small and large scale depending upon the nature of industry and the scale of interactions with the existing ecosystem.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all students

Time: 08.30-10.30

Days: Monday

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4564 - Integrated Energy Management

Credits: 2

Type: Lecture

Instructor/s: R. Parthasarathy, Rutool Sharma

Industries are one of the greatest consumers of energy, both in terms of power as well as fuel. Energy management thus becomes an integral part of improving energy efficiency of an industrial estate or industry. The course would discuss the need for energy management, technical, economic and financial aspects of efficient energy use supplemented by case studies and expert lectures.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all students

Time: 08.30-10.30

Days: Monday

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4568 - Legal Framework for Urban Environment Management

Credits: 2

Type: Lecture

Instructor/s: C.N.Ray, Ashwani Kumar

In the developing world, the rapid urbanization now under way will increasingly concentrate both population and economic growth in cities. The present course will look into details of the environmental laws and policies for the management of urban environment. Case studies will be used to highlight the importance of judiciary for urban environment management in India.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG students

Time: 16.30-18.30

Days: Monday

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4569 - Urban Environmental Risk Assessment and Management

Credits: 2

Type: Lecture

Instructor/s: Ajay Katuri

This course aims to make the target group aware of various tools and techniques in urban environmental Risk Management for an array of hazards. This course assumes working knowledge of GIS/RS. At the end of the course, you will be expected to develop a vocabulary of disaster management and knowledge of applying tools and techniques for various risk management exercises.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG Students

Time: 16.30-18.30

Days: Monday

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5070 - Environmental Studies

Credits: 2

Type: Lecture

Instructor/s: Dipsha Shah

Knowledge of environmental science is utilized to control the environment for the protection of health and comfort of all living beings on this earth. In this Lecture course, students study ecology and ecosystem, natural resources, human population and its associated problems, environmental pollution and global environmental issues.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30

Days: Wednesday

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5593 - Environment Impact Assessment for Infrastructure Projects (IED)

Credits: 2

Type: Lecture

Instructor/s: Tushar Bose

This lecture course investigates the fundamentals of Environmental Impact Assessment (EIA) as a set of decision tools for environment management, paying close attention to the necessity of both understanding the impacts of infrastructure projects on the surroundings, and mitigating these expected impacts. Case studies of EIAs are discussed, and evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students and UG 4th & 5th year students

Time: 08.30-10.30

Days: Monday

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History, Theory and Criticism

1014 - History 3

Credits: 2

Type: Lecture

Instructor/s: Sachin Soni

Theoretical emphasis of this course is Codification & Canonization of cultural practices and Abstract order as generator of Architectural Expressions. Taking examples of Medieval Hindu, Egypt, Greek and Roman architecture, first part of the course looks at modes of representing ideas of landscape, both social and sacred, through architectural form. Second part of the course deals with philosophy and ideology as basis for architectural ideas of abstraction and universality using precedents in Islamic Architecture, Renaissance and Baroque. Along with historical examples, the course will make cross references to contemporary cases to elaborate theoretical themes.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 08.30-10.30

Days: Wednesday

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1068 - History 1

Credits: 2

Type: Lecture

Instructor/s: Pratyush Shankar

This course is the first History of Architecture course for undergraduate students of Architecture. The expression of architecture and its elements is understood with respect to its contextual condition of landscape, material, technology and social organization through examples of clearly defined community groups and ancient settlements. The course also covers the various artisanal traditions in past and in present day society and its role in formation of typologies and systems that in many cultures provided a building block for a sophisticated classical tradition of buildings. The sessions will be conducted through Chalk and Board and visual presentation. Students are expected to read, draw and write about various case studies

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 08.30-10.30

Days: Wednesday

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1070 - Domesticity and Housing in India

Credits: 2

Type: Seminar

Instructor/s: Vishwanath Kashikar

Using histories of housing in Paris, New York and London as a theoretical base, this course explores the meaning of domesticity and the urban housing type in India over the past 100 years. Readings and student presentations on domestic interior, housing type, housing regulations etc. will lead to an overview of various aspects of housing in India.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 3rd Year and above UG students and PG students

Time: 08.30-10.30

Days: Monday

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1073 - Living Public Spaces – an experience

Credits: 2

Type: Lecture

Instructor/s: Mehrnaz Amiraslani

This course will look at public spaces as places that accommodate, facilitate, and encourage the frequent coming together of people and ideas. Questioning the existing state of public spaces in our cities, it will focus on physical, tangible public spaces in the urban fabric of the city, observe and study them empirically and propose re-imagining them. Students will learn through lectures, study of specific sites, interaction and discussions with professionals, and a final, guerrilla project aimed at generating public space / think tank.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 3rd year UG onwards + PG

Time: 08.30-10.30

Days: Thursday

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1509 - Streets for People

Credits: 3

Type: Seminar

Instructor/s: Jigna Desai, Madhavi Joshi, Purvi Vyas

This course is concerned with policies and practices to keep people at the centre of street design as against the conventional focus on motorized vehicles, and tools to engage people in designing streets, as an essential element of this paradigm shift. Open to students of all disciplines. Developed by CEE, SUMNet, and CEPT this course is offered under the UNESCO Chair on Education for Sustainable Development and Human Habitat program.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: None

Time: 14.30-16.30

Days: Friday

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1544 - Introduction to Architectural Thinking

Credits: 2

Type: Lecture

Instructor/s: Neelkanth Chhaya

The course attempts to give an overview to key thoughts that have informed architectural theory and practice in the last 100 years. The course is positioned as a primer for architectural graduates with the intention of sharpening their understanding of the various attitudes that architects have taken while positioning their design, highlighting the autonomous ideology of architecture itself. Concurrently key developments in theoretical discourses in and around the discipline of Architecture will be brought forward to eventually generate discussions of questions of architectural production in today's time.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M.Arch Semester I students, open to postgraduates and 4th and 5th Year UG students

Time: 08.30-10.30

Days: Wednesday

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1547 - Recomposing Urban Fragments

Credits: 2

Type: Seminar

Instructor/s: Giulia Setti

What is the meaning, today, of taking care of industrial dismantlement? Which relationships may exist among the processes of industrial abandonment and the modifications which are concerning urban fabrics?

In the European context, the disposal takes on a new radicalism, indeed it no longer concerns only individual buildings, but also larger portions of urban fabric. The course aims at providing to the students theoretical and practical tools for the investigation of territories in a state of crisis. The course proposes interpretative readings of European contexts (in particular Italy, France and Germany) marked by industrial processes of disposal, through which both the structure of urban form and the relationship between voids, generated by the abandonment, can be read. The first part is structured on the theoretical variations of some words, such as waste, abandonment and disposal, which allow to construct a premise to the following steps. The second part addresses the reconstruction of the concept of recycle and reuse as possible strategies for fabrics and buildings that have had deep processes of crisis. These two sections are supported by lectures that describe the key issues in the theoretical construction of architecture, necessary to investigate contemporary fabrics.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Open to postgraduates and 4th and 5th Year UG students

Time: 14.30-16.30

Days: Thursday

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1554 - Theory and History of Cities

Credits: 2

Type: Lecture

Instructor/s: Pratyush Shankar

This course gives an overview of the various urban theories of the last 150 years that helps us understand the idea and form of Cities. It also covers the historical evolution of cities in the world from the beginning to the present day period. The key departures in the imagination and form of cities are

explained using historical accounts. The social conception of a city is discussed at length and the idea of citizenship and culture of a city elaborated upon. Teaching is conducted through lectures and slideshows. Students are required to read and review books and articles and expected to write essays as part of their assignments.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M.Arch (TD) and M.Arch (ASC) Semester III students, open to all postgraduates and 4th and 5th Year students of UG programs.

Time: 08.30-10.30

Days: Thursday

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1558 - Conservation Studies III

Credits: 3

Type: Lecture

Instructor/s: Jigna Desai

The objective of this subject would be to study the idea of continuity and change in an historic urban environment, to equip the students with the tools and methods for identifying the indicators for developing an understanding for the same. To develop an exposure towards urban conservation and development practices in all contexts along with a study of its philosophical background and to prepare students to develop their own perspectives on the above in an historic urban environment.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch (ASC) Semester III, open to postgraduates and 4th and 5th Year UG students

Time: 14.30-17.30

Days: Wednesday

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2019 - History - V

Credits: 3

Type: Seminar

Instructor/s: Snehal Nagarsheth

This lecture course inculcates students with the ability for critical thinking through the idea of theory building. It helps students critically look at situations, discover the many layers, and unravel or make the connections, thus preparing students to take up their independent research project in the subsequent semesters in the subject of their choice.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared History - III & IV are eligible for the course .

Time: 14.30-17.30

Days: Friday

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2062 - History of Design

Credits: 2

Type: Lecture

Instructor/s: Kamalika Bose

This lecture course traces the evolution of architecture and design through the study of different historical movements. It helps students identify design principles and attributes in these historical styles and provides them with a wider perspective of the evolutionary aspects of design.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: None

Time: 08.30-10.30

Days: Tuesday

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2063 - History IV

Credits: 2

Type: Lecture

Instructor/s: Shrutie Tamboli, Avinash Engineer

This course addresses that phase of design history that has had a widespread influence and can be considered the precursor to the Modern Movement. Starting with tracing the origins of the Arts and Crafts Movement and the Industrial Revolution, the discussion moves to the ascent and consolidation of these movements. This course develops an understanding of the evolution of design within the purview of these movements and the events and issues that influenced it.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: 3rd year and above UG only

Time: 08.30-10.30

Days: Tuesday

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2067 - Rediscovering Ahmedabad

Credits: 2

Type: Workshop

Instructor/s: Hamid Raj

This course is a journey to rediscover the old city of Ahmadabad. Ahmedabad just recently celebrated its 600th birthday. The heritage of traditions, culture and architecture is explored. The city has continued to evolve, adjust and accommodate our present day needs. The city is fortunate to have continued the rich architectural practice with some of the most acclaimed architects having built modern masterpieces.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: None

Time: 14.30-18.30

Days: Tuesday

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2521 - History & Theory - I

Credits: 4

Type: Research Seminar

Instructor/s: Snehal Shah

This course deals with the history of the built environment and the circumstances, the reasons and the manner of its conception. The 'histories' and 'theories' of architecture have played a pivotal role in determining its course and consequently, its manifestations. The critical thinking that has developed due to various points of view and polemical discourses has been central to our understanding of the built space, both interior and exterior.

The line of correlation and cross references in the case of European history and theories is extremely important to appreciate and understand the modern and contemporary movements. The references can be traced back to Renaissance, Baroque and Neo-classical movements till the beginning of industrial revolution. Awareness of the precursors of these movements dating back to early architecture of the Antiquity, till the Romanesque and Byzantine is also provided. The Gothic revival also played a vital role in the conception of the rich and varied Modern movement.

The course begins with outlining the European histories and theories. Formal lectures, divided into two sessions will deal with these aspects of European Architecture and then address the pre-industrial revolution, with a concurrent examination of the critical thinking that has been generated in the form of collective readings and seminars.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in a PG program at Faculty of Design or the Master of Landscape Architecture program at Faculty of Architecture.

Time: 08.30-12.30

Days: Monday

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2527 - History of Arts and Crafts

Credits: 2

Type: Lecture

Instructor/s: Asha Mandapa

This program will attempt to provide the students with an overview of the History of Art & Craft, in materials, like Glass, Wood, Fabric, Metals, etc., as Art and Craft forms. The course will include the study of the development of art and craft starting from 1860, when the Art and Crafts movement began under the leadership of William Morris, till today. It will examine the Asian Art and Crafts forms, paying particular attention to Indian, Chinese and Japanese forms. It will talk about the seamless transition that has taken place in the uses and adaptations of these materials over time and in a modern context. The course will focus on the design principles, their evolution and role in making these art and craft forms relevant to the design of interior and exterior built environment. The interplay and merging of techniques that is unique to each material, yet producing amazingly varied results when applied to other materials will be covered. Practical demos of the use of some selected materials and an exploration of the results will be provided. In addition, case studies will examine some of the famous architectural buildings and monuments that house some of these exquisite art and craft forms.

Faculty: Design

Program: Undergraduate program in Design and Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester VII or above in a UG program at Faculty of Design or Architecture OR in a PG

program at Faculty of Design or Architecture.

Time: 14.30-16.30

Days: Tuesday

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2528 - India 1800-1947

Credits: 2

Type: Lecture

Instructor/s: Snehal Shah

The roots of Indian-ness and its appropriateness were sown much before India won its independence. The strong influence from Britain and then a slow but steady revival of regionalism, emerged as the two paradoxical as well as influential paradigms after 1947. The paintings of India as sublime and as the land of mysteries, the continuing of rituals in crafts, and the rise of patriotism in politics are some of the issues the course will touch upon.

It will also give an understanding of the historical artifacts and significant movements in the conception, perception and expression of arts and crafts vis-a-vis the different world cultures. The course will sensitize the students to the connections between the various forms of arts/crafts, their makers, patrons/users and integration/expression in the built realm through formal lectures and site visits.

Faculty: Design

Program: Undergraduate program in Design and Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester IX or above in a UG program at Faculty of Design or Architecture OR in a PG program at Faculty of Design or Architecture.

Time: 16.30-18.30

Days: Monday

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4005 - Urban History -1

Credits: 3

Type: Lecture

Instructor/s: Rutul Joshi, Renu Desai

This lecture course prepares students to analytically understand the processes that have shaped built form and settlement pattern over the centuries. This part of the course covers the evolution of cities until the pre-independence era in India, and into the beginnings of the modern era globally. We see history both as a guide and a context as this course aims to explore theory about viewing cities through historical lenses.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 08.30-11.30

Days: Thursday

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4010 - Spatial Planning and Environmental Design

Credits: 2

Type: Lecture

Instructor/s: Charanjeet Singh, Lita Mohanty

Spatial Planning is essentially the art of designing and developing places that enables development of better natural & built environment to shape sustainable & livable communities. This approach primarily builds around a people centric approach while addressing the concerns of the environment, society and economy at large. The course will explore theories and practices in spatial planning, environmental design and sustainable development in a global context, through discussion of key concepts, critical analysis and evaluation.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: B Plan students as well as for 4th or 5th year students from other schools

Time: 08.30-10.30

Days: Wednesday

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4014 - Mass Housing: Issues and Approaches

Credits: 2

Type: Lecture

Instructor/s: Yatin Pandya

The course looks at the issues of Mass housing and discusses its co-relation with the built environments. The aspects dealt with by way of lectures include 6000 years of evolution of dwelling type as resultant of various forces of the time, Housing type- Lowrise vs highrise living, Civic open spaces, participatory design and houseform variations, sustainable developments, site planning alternative models. Couse consits of lectures, analysis by student and design based exercise.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 14.30-16.30

Days: Thursday

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4039 - Planning Theory -1 (Land Use, Built form, Transport)

Credits: 3

Type: Lecture

Instructor/s: Lita Mohanty

This course is designed to provide under graduate students from urban planning an overview of land use and transportation planning. The course aim to instil primary knowledge of land use and transport to the students that will allow them to think critically about land use and transport policies. The students will be able to understand what land use and transport systems are, the influences and interaction between land use and transport.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 14.30-16.30

Days: Tuesday

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5512 - Construction Failures (SED)

Credits: 3

Type: Lecture

Instructor/s: R.J.Shah

Understanding the causes of construction failures, factors affecting durability of concrete structures, Professional & legal responsibilities to reduce frequency and severity of construction failures, Investigation and evaluation of distressed structures, materials & technologies for the repair, strengthening and stabilization of structures.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 1st Semester students

Time: 12.30-13.30, 11.30-13.30

Days: Wednesday, Friday

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5573 - Advanced Design of Reinforced Concrete Structures (SED)

Credits: 4

Type: Lecture Type-2

Instructor/s: Aanal Shah, Bhargav Tewar

History of reinforced concrete structures, Stress strain relationship, Design philosophy- a quick review and the laboratory testing for understanding the various parameters of concrete. Working out the possible structural systems and analyzing ,designing and detailing the same , Torsion design, Serviceability criteria, different types of foundation and staircase design.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-11.30, 14.30-16.30

Days: Friday, Friday

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5574 - Advanced Design of Steel Structures (SED)

Credits: 4

Type: Lecture Type-2

Instructor/s: Dhara Shah, Parth Thaker

Historical development of steel , properties and stress strain curve for steel, Design philosophy and methods of analysis, types of connections - simple and moment resistant, tension members, compression members, flexural members, giving the guidelines to the students regarding corrosion protection, fire resistance, fatigue resistance and torsion concepts. Site visits of Industrial structures and preparing drawings and details of the same.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 14.30-16.30, 09.30-12.30

Days: Tuesday, Thursday

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5576 - Structure, Material and Form (SED)

Credits: 2

Type: Lecture

Instructor/s: V.R.Shah

Structure Material and Form – How they are selected, manipulated or associated in design produces the outcome. Therefore the understanding of form, material and structure is very important for designers. Material properties and structural actions are vital for development of form. The course begins with developing the understanding of structural actions, properties of structural materials and form which will lead to deeper understanding of interrelationships of these three ingredients. The course will be conducted as lecture presentations interspersed with relevant assignments.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 14.30-16.30

Days: Wednesday

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5577 - Design of Stack like Structures (SED)

Credits: 3

Type: Lecture

Instructor/s: Aanal Shah, Rakesh Shah

Understanding the different codal provisions of stack like structures such as silos and chimneys. Appraising students regarding the technical requirements and design philosophy. Design and detailing of silos and chimneys considering the latest codal provision of different countries. Introduction to steel chimneys, steel silos, prestressed silos and special silos such as compartment silos.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 08.30-09.30, 08.30-10.30

Days: Tuesday, Thursday

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5579 - Design of Bridges (SED)

Credits: 3

Type: Lecture Type-2

Instructor/s: Devang Patel

Introduction to prestressed concrete structures. Implication of prestressed concrete in modern structures such as bridges. History of bridges, Introduction to modern bridges and their types. Understanding the hydrology and various parameters associated with it. Analysis, design and detailing of bridge structures.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 08.30-10.30, 08.30-10.30

Days: Monday, Wednesday

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5583 - Surface Structures (SED)

Credits: 2

Type: Lecture

Instructor/s: Ashish Shah

To impart basic knowledge to the structural analysis and design of various types of shells and plates. This will include the history, form, development of basic geometry, general methods of analysis, design of rotational shells, translational shells and folded plates with detailing.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 14.30-16.30

Days: Friday

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Housing

1070 - Domesticity and Housing in India

Credits: 2

Type: Seminar

Instructor/s: Vishwanath Kashikar

Using histories of housing in Paris, New York and London as a theoretical base, this course explores the meaning of domesticity and the urban housing type in India over the past 100 years. Readings and student presentations on domestic interior, housing type, housing regulations etc. will lead to an overview of various aspects of housing in India.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 3rd Year and above UG students and PG students

Time: 08.30-10.30

Days: Monday

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4041 - Housing and Real Estate Planning

Credits: 2

Type: Lecture

Instructor/s: Madhu Bharti

The purpose of the course is to familiarize the students with fundamentals of Housing and Real estate in the country, so as to develop an understanding of the real estate market. Course would be of two sections;

Section A: Housing

Definitions, understanding housing shortage, supply viz-a viz denand at city level.Quantitative and qualitative aspects of housing. Role of various actors in provision of Housing, changing paradigm of housing delivery models.

Section B; Real estate

This section would focus on definition and differences; land cost and land values, registered value and market value. Development process for Land and Real estate. Understanding the Factors Influencing Locational Decisions for specific uses like residential, commercial, industrial.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 08.30-10.30

Days: Monday

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4550 - Housing Programme and Project Development & Evaluation

Credits: 2

Type: Lecture

Instructor/s: Sejal Patel

Affordable housing projects and programmes often get formulated and implemented in such a manner that intended beneficiaries are not reached, their standard of living is not improved or long term sustainability is not ensured. This (COURSE TYPE?) course leads students to understand the formulation of the life cycle of a housing program and project, which may allow for better implementation and delivery.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Housing specialization students, Open to all PG students

Time: 14.30-16.30

Days: Tuesday

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4551 - Urban Development and Real Estate

Credits: 2

Type: Lecture

Instructor/s: Madhu Bharti

The course focuses understanding the factors responsible for spatial and demographic growth of the cities, understanding land economic theories and the pattern of transformations with reference to cities in India. Understanding the relationship between the economic use of land and the use of land with reference to planning regulations. The objective of the course is to develop an understanding of how due to local, national and international socio-political-economic factors, cities have a specific character. Seminar based

course. Students would be encouraged to take the lead.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Housing specialization students, Open to all PG students

Time: 14.30-16.30

Days: Wednesday

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Humanities

1068 - History 1

Credits: 2

Type: Lecture

Instructor/s: Pratyush Shankar

This course is the first History of Architecture course for undergraduate students of Architecture. The expression of architecture and its elements is understood with respect to its contextual condition of landscape, material, technology and social organization through examples of clearly defined community groups and ancient settlements. The course also covers the various artisanal traditions in past and in present day society and its role in formation of typologies and systems that in many cultures provided a building block for a sophisticated classical tradition of buildings. The sessions will be conducted through Chalk and Board and visual presentation. Students are expected to read, draw and write about various case- studies

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 08.30-10.30

Days: Wednesday

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1069 - Literary Sojourns

Credits: 2

Type: Lecture

Instructor/s: Hemang Desai

Literary Sojourns is an introductory course in literature for the participants. Sojourn is a temporary stay in a place, and the course is a literary sojourn in various cultures and civilizations. The course explores the phenomena of art with a focus on literature. It also introduces various forms of literature like the essay, the short story, poetry and novel. The teaching method involves reading of the original texts and their analysis. The course is an appreciation of the act of reading and its importance in the present times especially. The course does not expect a prior exposure to literature.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 08.30-10.30

Days: Thursday

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1073 - Living Public Spaces – an experience

Credits: 2

Type: Lecture

Instructor/s: Mehrnaz Amiraslani

This course will look at public spaces as places that accommodate, facilitate, and encourage the frequent coming together of people and ideas. Questioning the existing state of public spaces in our cities, it will focus on physical, tangible public spaces in the urban fabric of the city, observe and study them empirically and propose re-imagining them. Students will learn through lectures, study of specific sites, interaction and discussions with professionals, and a final, guerrilla project aimed at generating public space / think tank.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 3rd year UG onwards + PG

Time: 08.30-10.30

Days: Thursday

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1074 - Representations of Space

Credits: 2

Type: Lecture

Instructor/s: Seema Khanwalkar

The elective course ‘Representation of Space’ examines and presents the ways in which spatial relations are seen as fundamental to human beings connected to their locations and those that affect their destinies. This is an exploration of the coming together of physical space, the modes of representation of space (like in literature). The course will invoke examples from performance cultures, literature, etc to create an engaging exploration of space for students interested in performance, architecture, theater, semiotics among other. The course aims to give an experience of space as movement, gradually, akin to literary works and how for example, Baudelaire shaped the idea of a modern city, or George Orwell made us see the dark side of totalitarian models for the living environment.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 08.30-10.30

Days: Friday

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1075 - Place-Making and Urban Design Guidelines

Credits: 2

Type: Lecture

Instructor/s: P. V. K. Rameshwar

There is a growing disenchantment with the Urban Development processes, tools and the resultant forms. On one hand Architecture continues to be an isolated individual act while Urban Planning is abstract. Cities are seen as merely economic entities. There is serious concern about this "developmentality". In the cities there is a loss of character, identity and legibility. Urban design aims at achieving coherence and addresses these concerns.

This course aims at understanding various Urban Design control/guidelines and Case studies evolved to achieve a quality to a place. It is aimed at developing an understanding of the Urban Form, the coherence, the variety and the room for individual expression. The case studies would constitute both inner city cores and the new urban extensions.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 3rd Year and above UG students and PG students of Architecture and Planning

Time: 08.30-10.30

Days: Monday

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1548 - Humanizing Cities

Credits: 2

Type: Seminar

Instructor/s: Rajiv Kadam

It is the people of the city – their individual aspirations and collective struggles, their day-to-day lives and their behaviors define the city as an urban form. The negative effects of industrialization were the fissures caused in the fabric of cities. The Architecture of the city changed and the quality of life was disturbed. Even the most wealthy and progressive cities could not offer even elementary necessities of life; they remained as man-heaps, machine-warrens and not organs of human association. Art, religion and culture lost its place to machine, which expressed order, efficiency and production. This adverse impact continues to haunt urban life even today. The culture of the city underwent a change. Interactions of various societies due to global economic conditions have resulted in new forms of culture and city. The notion of space, the very fundamental element of locating human life is subjected to change and new definitions. There is a need to understand the new structure and answer the various questions in designing the built environment to contain the very purpose of human life. The objective of this seminar course is to involve students into an investigative process to read and analyze urban areas and examine, it for its human angles. The course will be conducted as series of discussions supported by case studies.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: None

Time: 08.30-10.30

Days: Monday

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2507 - Cultural Anthropology

Credits: 3

Type: Lecture

Instructor/s: Seema Khanwalkar

Anthropology covers virtually all facets of human existence and human history from its very beginnings. At the beginning of the 20th century and continuing through much of it, Cultural Anthropology developed with a view of culture as a complex whole that includes knowledge, belief, art, morality, law, custom, and other capabilities acquired by man as a member of society. It included all things that had been cumulatively devised by humans and thereafter learned from each other. This course will introduce students of design to an understanding of culture as a matter of recording customary practices and beliefs that constitutes a 'way of life' of a human community or an ethnic group.

Faculty: Design

Program: Undergraduate program in Design and Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in a PG program at CEPT.

Time: 14.30-16.30

Days: Wednesday

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4540 - Understanding of Indian Society

Credits: 2

Type: Lecture

Instructor/s: C.N. Ray

This course covers basic understanding of Indian social and cultural life in the overall context of planning and development. The conceptual part of the course will be delivered mainly through class lectures. For some detailed analysis and also for an exposure to the various social and cultural issues open discussions will be held along with the formal lectures. The entire course is sub-divided into twelve main issues and details of the topic along with relevant references will be given at the beginning of the session. The main objective of this course is to help students to understand structural and cultural background of various social issues and problems in the contemporary Indian society, particularly the Urban India.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 14.30-16.30

Days: Wednesday

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Infrastructure

4552 - Water and Sanitation

Credits: 2

Type: Lecture

Instructor/s: Mona Iyer

This course aims to provide a basic understanding of water, wastewater, sanitation and solid waste management services. The objectives of the course include understanding infrastructure DPRs, overview of standards, guidelines and policies, assessment of service delivery gaps, sensitization on operation and maintenance issues, cost and institutional framework.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Infrastructure Planning specialization students, Open to all PG students

Time: 14.30-16.30

Days: Monday

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4553 - Port Planning

Credits: 2

Type: Lecture

Instructor/s: Anil Roy, Mihir Das, Saswat Bandyopadhyay

This course examines the port sector and its role in regional development, looking at both connectivity to the hinterland and development concepts. The course provides students with a structured understanding of aspects of port planning, port engineering/design, port operations, reforms and the socio environment perspective of port development.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Infrastructure Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Wednesday

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4554 - Infrastructure Projects Structuring and Finance

Credits: 2

Type: Lecture

Instructor/s: Saswat Bandyopadhyay, Visiting Faculty

This lecture course looks at the basics to project formulation, elements and techniques of project formulation, projection evaluation, and financing and cost components of infrastructure. The course introduces students to elements that support the use of project finance, such as sources of capital, financial structuring, financial modelling, accounting considerations, and tax considerations.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Infrastructure Planning specialization students, Open to all PG students

Time: 16.30-18.30

Days: Monday

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4555 - Energy Infrastructure

Credits: 2

Type: Lecture

Instructor/s: Minal Pathak, Mona Iyer

The course aims to develop an understanding of energy supply and demand, dynamics of conventional and renewable energy resources, economy and environment concerns from a global scale to national and sub-national scale. With reference to the power sector in India, it discusses the institutional and policy related aspects including the current supply and demand, reforms from monopolistic monolith structure to unbundled structure, privatization, tariffs and regulations. On the demand side, the course highlights issues of urban energy use and efficiency in buildings, transportation and industry. Finally, it touches upon the energy environment linkages, climate change and energy access, all of which form a part of planning and managing energy for sustainable habitats.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Infrastructure Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Tuesday

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Landscape

1513 - Natural Sciences - I

Credits: 2

Type: Lecture
Instructor/s: Deepa Maheshwari, N. Madhukara

This lecture course introduces students to key concepts of natural sciences, with a focus on geology and soils. Students move through geological processes from atmosphere to ocean floors, to develop an understanding of the geological cycle which explores tectonics, geological agents, weathering and the formative capacity of water, among other concepts. The course will further address soil forming processes, the properties of the material and surveying and mapping, with emphasis on the particulars of the Indian context.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all P G students

Time: 09.30-10.30, 09.30-10.30

Days: Monday, Tuesday

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1518 - Field Study of Plants

Credits: 3

Type: Lecture

Instructor/s: Deepa Maheshwari, Divya Shah

This lecture course introduces student to plant material as a fundamental element in landscape design. The course emphasizes on field visits as a mode of understanding and appreciating plants for their varied physical attributes. Students learn to classify plant materials based on various uses in landscape design and understand in detail, aspects such as shape, form, size, habit, branching pattern, flower, foliage, fruit, growth requirements and seasonal variations including scientific nomenclature. Evaluation method: Assignment

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all PG students, Undergraduate students III year onwards

Time: 15.30-18.30

Days: Wednesday

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1563 - Natural Sciences - II

Credits: 2

Type: Lecture

Instructor/s: Deepa Maheshwari, S.S. Rao, Sandip Patil

This course develops student knowledge of natural sciences through the study of botany, hydrology and climatology. Students learn principles of plant classification, biological processes, and economic values. They study subjects such as hydrological cycles, aquifer recharge areas, rainfall patterns and groundwater management, and also look at weather patterns, atmosphere, with focus on climate zones of India as a base for the understanding of climate data, which they gather and analyze using on-site exercises and equipment. Finally, students will attempt to analyze the impact of both natural and manmade features on climate.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all P G students

Time: 08.30-10.30

Days: Wednesday

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1564 - Landscape Engineering

Credits: 2

Type: Lecture

Instructor/s: S.A.Kalgaonkar, Sandip Patil, Rishabh Jain, Vikas Giri

This lecture course deals with advanced engineering topics and techniques used in landscape by looking into landforms and grading, design of water features and appropriate irrigation systems and outdoor lighting design aspects as essential part of Landscape Design.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all PG students, Undergraduate students IV year onwards

Time: 09.30-10.30, 09.30-10.30

Days: Thursday, Friday

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1565 - Regional Landscape Planning

Credits: 2

Type: Lecture

Instructor/s: Sandip Patil, Niti Mehta, S.A. Kalgaonkar

Regional landscape planning deals with optimum use of resources and sustainable planning principles. The lecture series shall introduce students to various aspects of regional landscape planning such as physical mapping and analysis, environmental impact analysis and economics of the environment.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to to PG students

Time: 16.30-18.30

Days: Wednesday

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1566 - Professional Practice for Landscape

Credits: 2

Type: Lecture

Instructor/s: Sandip Patil, Satyajit Sen

Professional practice for landscape provides tools to landscape professionals for understanding work processes, workflow techniques, understanding of deliverables, legal aspects, etc.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all PG students

Time: 17.30-19.30

Days: Friday

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1567 - Landscape Conservation

Credits: 2

Type: Seminar

Instructor/s: Deepa Maheshwari, Sandip Patil, Divya Shah

The seminar broadens students knowledge in various aspects of landscape conservation. An appropriate topic pertaining to environmental, ecological or other important topics in the field of landscape are selected. Seminar is based on published material for an in-depth study. The study findings are presented in the form of discussions and seminars during the course of the semester with emphasis on research methodology.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Only for MLA-MLD 3rd Semester students

Time: 15.30-17.30

Days: Monday

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Language and Communication

1026 - English Language and Communication

Credits: 2

Type: Lecture

Instructor/s: Neha Krishnakumar

This course is highly recommended for students who are not fluent in the English language. Communication skills are taught through a series of different exercises that include reading, writing and speaking.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 08.30-10.30

Days: Monday

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5084 - Communication Skills

Credits: 2

Type: Lecture

Instructor/s: Pervin Doctor

This lecture course enables students to write better and speak better in English. The focus is on English as a foreign language, a library language, and a language in which one can carry on day-to-day requirements.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 16.30-18.30

Days: Thursday

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Management

3000 - Facilities Management

Credits: 9

Type: Studio

Instructor/s: Mercy Samuel, Nimit Karia, Shreekant Iyengar, Jayshree Rammohan, Manvita Baradi

This is the introductory studio of the Habitat Management program. The Facilities Management studio aims at imparting the skills required for managing the smallest unit of an urban area. These units would include living and work environments namely housing societies, institutions, and/ or commercial establishments. The studio will focus on preparing management solutions for the respective focus areas to include operations and maintenance regimes of infrastructure and services - water supply, solid waste, parking, open spaces, waste water, safety and security, etc

The studio begins with a set of sessions on building the basic skills of effective communication and quantitative techniques. The studio will bring in concepts and understanding of urban areas - its demographics, governance and legislation. The course work involves site visits, analysis and presentations. Students will be evaluated on overall performance with weekly assessments.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: Only MHM Sem I students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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3003 - Fundamentals of Accounting

Credits: 2

Type: Lecture

Instructor/s: Rajnikant Trivedi

This lecture course explores the fundamentals of accounting, accounting methodology and procedure, presentation, interpretation and analysis of financial statements, and the process and concept of auditing. Using techniques such as Ratio Analysis and Capital Budgeting, the course aims to provide a platform to enable students to address key issues in Financial Planning, Management and Analysis. Topics include Preparation of Accounts, Presentation of Accounts, Interpretation of Corporate as well as Public Accounts, Ratio Analysis, Audit Perspectives and Capital Budgeting. The course is delivered through lecture, presentations and case studies, with examination based evaluation.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: All UG and PG students

Time: 16.30-18.30

Days: Thursday

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3004 - Urban Utilities Management

Credits: 2

Type: Lecture

Instructor/s: Devanshu Pandit

This lecture course provides students with a basic understanding of utilities and urban infrastructure: water supply, drainage, storm water, solid waste management roads, streets, street lights, bridges and flyovers. This course also introduces students to the various materials and methods used in the construction of components of load bearing structures, frame structures, and composite structures. The course includes site visits that enable students orient themselves with city-based infrastructure. Evaluation is based on presentation and examination.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: UG 3rd year and above, all PG students.

Time: 08.30- 10.30

Days: Tuesday

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3015 - Management Principles and Practice

Credits: 2

Type: Lecture

Instructor/s: Margie Parikh

This course focuses on the dynamics of structure and behavior in order to get insight into the managerial principles and practices. The objective of the course is to: (1) Introduce the concept and process of management of organizations (2) Familiarize the students with the functions of management and (3) Develop the basic

understanding of the dynamics of structure and behaviour for more effective management. Learning for this course will initiate development of managerial skills and application of management principles in the respective domains of professional practice.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: UG 3rd year onwards and All PG students

Time: 14.30-16.30

Days: Tuesday

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3016 - Parking Management

Credits: 2

Type: Lecture

Instructor/s: Anuj Malhotra

City's transportation system includes a key element of "Parking" that is significantly responsible for vehicle growth, and other environmental and urban development issues. With the car parked more than 90% of the time in a day and with accelerating vehicle use, parking poses a critical transportation problem. Vehicles occupy several parking spaces in the city in a day and generally leads to more and more parking demand, this is owing to the ease of access of the user to a place of interest. Parking management, with the help of several strategies, can lead to a smart growth alternative with compact urban development, reduction in development costs, improved user safety on roads, reduction in traffic impacts and with check on vehicular growth, reduce paved surfaces and provide more vibrant public spaces that are used by a variety of people. "Parking Management", therefore, deals with strategies – programs and policies that result in an efficient use of parking resources. Through the course, parking management strategies shall be explored and shall be tested over a small city region to model its impact on the community and public resources.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: UG 3rd year onwards and All PG students

Time: 08.30- 10.30

Days: Monday

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3017 - TKW Technology & CKCS Software An understanding of the Traditional Wisdom and its Applications in the Built Environment

Credits: 2

Type: Lecture

Instructor/s: Nimish Patel, Parul Zaveri

During the course work sessions, the faculty members will share their experiences on the explorations, experiences, experiments, and understanding, in their 35 years of design practice, through talks, presentations and discussions. This course will attempt to expose the participant to the importance of vision in settlement planning, the principles of settlement planning in Western India;, the principles of design which have been applied in the built environments, spanning centuries of development, etc. The participants will be required to explore their own understanding through fairly intense individual library research work, and available documentation, and submit assignments from time to time. These assignments will form the basis for detailed discussions and understanding to be evolved.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: UG 4th year onwards and All PG students

Time: 14.30-16.30, 14.30-16.30

Days: Wednesday, Thursday (3rd Sept. onwards)

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3018 - Exploring Smart Cities

Credits: 3

Type: Lecture

Instructor/s: Gayatri Doctor

Rapid expansion, increasing citizen expectations, and the need to drive economic growth through cities are placing huge demands on city authorities to create reliable, cost-effective and sustainable infrastructure. Due to these challenges, cities of the future have started working on managing the urban infrastructure and buildings the smart way. The terminologies, 'smart city', 'digital city', 'intelligent city,' 'green city,' 'sustainable city', and 'smart and connected community' are all used to describe similar concepts and use information and communications technology (ICT) to enhance livability, workability and sustainability in a city.

The Course initially explores the different definitions of Smart Cities and a broad overview of the drivers and barriers to smart cities. It would also explore the various responsibility areas of a city (what it needs to accomplish for citizens) like Built environments, Energy, Transportation, Health Services, Water & Waste Water, Public

Safety and its enablers (the smart technologies that can make those tasks easier) like connectivity, security & privacy, data management, interoperability, analytics. Worldwide initiatives of Smart Cities like Masdar City, Abu Dhabi; Amsterdam, Rio-de Janeiro would be examined. Some of the initiatives in the Indian context like Smart City, Kochi; GIFT City, Ahmedabad would also be examined.

The Lectures are based on case studies, with presentations and assignment based evaluation.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: UG 3rd year onwards and All PG students

Time: 16.30-18.30, 15.30-16.30

Days: Tuesday, Friday

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3019 - Services Improvement Management

Credits: 9

Type: Studio

Instructor/s: Manvita Baradi, Meghna Malhotra, Margie Parikh, Utkarsh Patel, Rajan Raval, Devanshu Pandit, Shelly Kulshrestha(AA)

The studio exercise will focus on developing skills and tools to enhance efficiency of city level services. Students will work towards developing a performance assessment and monitoring system for urban utilities. Through a structured process of data analysis and gap assessment, students will be expected to identify the key challenges in operations, maintenance and overall management of urban utilities. The objective of the exercise is to enhance energy efficiency in urban utilities; build effectiveness in administration, human resource and monitoring systems and to develop financing strategy for operation and maintenance of the utilities. The key outcomes of the studio exercise will be preparation of services performance monitoring plan.

The studio will strengthen skills in qualitative and quantitative research. It will bring in the concept of energy management. The course work will involve site visits, in-class discussions and presentations. Students will be evaluated on overall performance with weekly assessments.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: Only MHM sem III students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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3020 - Contract Management

Credits: 1

Type: Lecture

Instructor/s: Nimitt Karia

The objective of this course is to introduce the students to the concepts and relevance of contracts. It will further involve discussions on contract types, their suitability, forms and the laws governing contract. It would also include understanding of tender process and bid analysis. The course would also touch upon the issues and problems related to contracts. The course would involve discussion on concepts, case studies and role plays and presentations. The assessment would be done on the basis of coursework, group assignment and presentations.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: UG 3rd year onwards and All PG students

Time: 17.30-19.30

Days: Friday

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3021 - Social Innovations, Entrepreneurship

Credits: 2

Type: Lecture

Instructor/s: Rakesh Basant, Mercy Samuel

The course aims to develop the understanding of students regarding how innovation leads to the emergence of new knowledge which forms the basis of new products, services and processes, and the role which entrepreneurship plays in shaping the ways in which opportunities are identified, shaped and taken to the market through the formation of new enterprises or the integration of innovation into existing organizations.

This course will use theories of innovation and entrepreneurship to explore how effective organizations engage in these two strongly integrated processes. Examples from habitat sectors will be used to illustrate the implementation of innovation strategies and the impact of innovative and entrepreneurial behaviour on economic development.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: Only MHM students

Time: 14.30-16.30

Days: Monday

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3022 - Social Infrastructure Management

Credits: 2

Type: Lecture

Instructor/s: Shreekant Iyengar

This course aims at providing an idea about the relevance and scope of social infrastructure in development. The course would begin with the concepts of public and private goods, externalities and social costs. It would further include the study of the components of social infrastructure namely healthcare, education, community development services, and social welfare activities in a city. A study of existing systems and models of service delivery in India and abroad would also be included and, the issues and challenges of the same would be discussed. The course would also cover the public policy aspects to development of social infrastructure, financing such infrastructure through public and private sources and pricing of the same.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: Second year undergraduate and All PG students

Time: 08.30-10.30

Days: Thursday

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3023 - Financial Management

Credits: 2

Type: Lecture

Instructor/s: Bala Bhaskaran

This lecture course is offered with the objectives of providing the students a basic understanding of financial analysis and to develop skills in preparing financial proposals and assessing feasibility of projects. The course will cover the following aspects:

Modules-1: Understanding Financial statements:

Module-2: Time Value of Money: concept and relevance of time value of money

Module-3: Cost Benefit Analysis: Identifying assessing and categorizing costs – Methods of financing projects, programs and firms, financial instruments - Financial analysis of projects, firms and programs.

Module-4: Capital Budgeting: Basic tenets of capital budgeting – new project – replacement model – Cost of Capital

Module-5: Making of Business Plans and feasibility studies –

Module-6: Structuring the project to enhance its feasibility of implementation – to enhance the competitive advantage of the project.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: UG 3rd year onwards and all PG students.

Time: 08.30-10.30

Days: Wednesday

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3024 - Safer Cities

Credits: 1

Type: Seminar

Instructor/s: Shelly Kulshrestha (AA)

This course focuses on tools and techniques for making cities safe and resilient. Through discussions and exercises, students will analyse vulnerability factors related to specific stakeholders (women, children, aged, differently-abled) and practices which contribute to risk reduction. The course will include discussion on topics related to safety and mobility, mitigation measures for disaster risk reduction, barrier free infrastructure design, institutional arrangements and community participation for safer cities. The course will encourage discussion on pre-assigned readings and field visits. Evaluation will be based upon student participation in the exercises and class discussion.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: UG 2nd year and onwards including PG students

Time: 16.30-17.30

Days: Monday

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4544 - Urban Land Supply, Policies And Valuation

Credits: 2

Type: Lecture

Instructor/s: Rutool Sharma

The course aims to deepen students' ability as well as the approach to

identify and critically analyze the driving forces, key stakeholders, regulatory framework and mechanisms associated within planning processes that play a critical role in land development. The students shall be exposed to relationships between land development process, policies and governance mechanisms, which in turn have severe impacts on land holding, markets and pricing. Specific topics that shall be part of this course include understanding fundamental steps involved in land development, legal dimensions to deal with issues emerging due to efforts to control land development activities and regulatory as well as market-based approaches for managing land.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban and Regional Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Wednesday

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4564 - Integrated Energy Management

Credits: 2

Type: Lecture

Instructor/s: R. Parthasarathy, Rutool Sharma

Industries are one of the greatest consumers of energy, both in terms of power as well as fuel. Energy management thus becomes an integral part of improving energy efficiency of an industrial estate or industry. The course will discuss the need for energy management, technical, economic and financial aspects of efficient energy use supplemented by case studies and expert lectures.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all students

Time: 08.30-10.30

Days: Monday

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4571 - Microsoft Project

Credits: 2

Type: Lecture

Instructor/s: Ajit Desai

Review of basic theory of network analysis to understand its application in software. All tools of software shall be explained to students to enable them to handle large projects efficiently. Emphasis will be given to Multiple projects handling, Tracking of projects, Earned value analysis, Customizing software, Use of macros etc.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG Students

Time: 14.30- 16.30

Days: Monday

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5031 - Disaster Management

Credits: 3

Type: Lecture

Instructor/s: Bharat Patel

This lecture course covers the fundamentals of disaster management, with the consideration of policies and acts of Gujarat and India. Lectures provide insight, knowledge and skills to students for their future performance, based on the needs of time, in the context of current developments and trends in the field of Disaster Management.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 16.30-19.30

Days: Monday

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5079 - Project Management

Credits: 4

Type: Lecture Type 4

Instructor/s: Devanshu Pandit, Shridip Shah

In this course, students are made aware of basic and advanced project management function, and the tools and techniques applied toward the satisfactory completion of construction projects by achieving objectives of time, cost, quality and safety, while protecting and maintaining the environment. This course engages students with the role of scheduling and tracking in time management, methods of scheduling and tracking, support of software in scheduling, and the use of information available through scheduling and tracking. Students work with applications of various software in the field of construction.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 08.30-09.30, 10.30-13.30, 08.30-09.30, 09.30-10.30

Days: Monday, Monday, Tuesday, Friday

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5086 - Solid Waste Management

Credits: 2

Type: Lecture

Instructor/s: Dipsha Shah

This course covers engineering and scientific concepts and principles applied to the management of municipal solid waste (MSW) to protect human health and the environment and the conservation of limited resources through resource recovery and recycling of waste material. It is one of the essential obligatory functions of urban local bodies in India. The course addresses regulatory aspects and hierarchy of integrated solid waste management; characterization and properties of MSW, hazardous waste found in MSW; collection, transfer, and transport of solid waste; separation, processing, combustion, composting, and recycling of waste material; and the landfill method of solid waste disposal.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30

Days: Friday

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5089 - Quantity Surveying & Specifications

Credits: 3

Type: Lecture Type 4

Instructor/s: Devanshu Pandit, Bhargav Tewar

Quantity surveying is an essential skill for handling any civil engineering project. This subject introduces students to units of measurements, bills of materials, measurement methods and rate analysis of main construction activities. The subject deals with detailed calculations and estimations for activities through examples.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30, 14.30-16.30

Days: Tuesday, Thursday

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5506 - SEZ Planning and Management

Credits: 2

Type: Lecture

Instructor/s: Kailash Bahuguna

This lecture course exposes students to various SEZ concepts in terms of integrated infrastructure development. The category 'SEZ' covers a broad range of more specific zone types, including Free Trade Zones (FTZ), Export Processing Zones (EPZ), Free Zones (FZ), Industrial Estates (IE), Free Ports, Urban Enterprise Zones and others. Usually the goal of an SEZ structure is to increase foreign investment.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Open to all PG students

Time: 08.30-10.30

Days: Thursday

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5586 - Economics and Finance (IED)

Credits: 3

Type: Lecture

Instructor/s: Pramod Yadav

This lecture course introduces students to the basics of economics, both micro and macro, and the basics of finance. Understanding of these basic concepts will help them appreciate the dynamics of the infrastructure sectors. Applications to infrastructure are covered using case studies. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-11.30

Days: Friday

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5589 - Infrastructure Policy and Regulations (IED)

Credits: 3

Type: Lecture

Instructor/s: Pramod Yadav

This lecture course introduces students to the various policies and regulations

concerning different sectors of infrastructure. The course covers the evolution of these policies, their application in the sector, and their impacts on the sector. Sector specific case studies are discussed in the latter part of the course. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-11.30

Days: Thursday

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5590 - Contracts and Procurement (IED)

Credits: 3

Type: Lecture

Instructor/s: Reshma Shah

This lecture course exposes the students to the legal aspects of construction projects, construction contracts, and issues related to contract administration. The course also covers different PPP model contracts and international practices. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 14.30-16.30

Days: Monday

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5591 - Project Management (IED)

Credits: 3

Type: Lecture

Instructor/s: Shridip Shah, Ajit Desai

The purpose of this course is to introduce students to generic principles of project management in the first module. The second module will cover introduction to project management software used in the industry.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-09.30, 08.30-09.30, 14.30-16.30

Days: Wednesday, Friday, Friday

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5594 - Real Estate Design and Management (IED)

Credits: 2

Type: Lecture

Instructor/s: Charanjeet Singh

This lecture course demystifies the development process by providing students with the opportunity to expand and integrate their understanding of such areas as finance, land-use planning, and development policy. This course also introduces fundamental concepts, principles, analytical methods and tools useful for making investment and finance decisions. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-10.30

Days: Tuesday

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5605 - Geomatics Project Planning and Management Techniques

Credits: 3

Type: Lecture

Instructor/s: A. R. Dasgupta, Shaily Gandhi, Anjana Vyas

This course will provide essential techniques for planning and managing projects. Topics covered in this course include project selection measures, developing a project plan, specifying project scope, preparing and evaluating tenders, awarding tenders, sub contracting, project monitoring, project evaluation,vendor management, time and cost management methods and resource planning.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Students with GIS Knowledge

Time: 14.30-15.30, 14.30-16.30

Days: Monday, Wednesday

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Policy and Legislation

4542 - Urban Politics and Governance

Credits: 2

Type: Lecture

Instructor/s: Shrawan Kumar Acharya, Anurima Mukherjee Basu

The principal objective of the course is to engage with the concepts and debates of governance, citizenship and politics in urban planning. It will contextualize the discussion on governance in the wider debates centered around development and human rights and the roles of the state, civil society and market in urban development in India. The course would discuss aspects of good governance, constitutional framework for local governance, neoliberal development and changing governance arrangements in cities and finally discuss the contemporary conflicts and contestation arising in Indian cities. The premise of the course rests on the fact that “planning is essentially a political process” and the “problem fixer” attitude and approach of the ‘planner” is flawed without a proper understanding of the political economy of urban development. Besides lectures, topical debates, discussion and position paper will be encouraged to generate critical thinking among the students.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 08.30-10.30

Days: Tuesday

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4562 - Environmental Laws and Policy

Credits: 2

Type: Lecture

Instructor/s: Neeru Bansal

The course would discuss national environmental policy and the laws dealing with conservation of natural resources and for prevention & control of environmental pollution. International Conventions for the Protection of Environment in major thematic areas will be discussed. The course would include governance structure at central and state level for implementing environmental laws in India. It would also highlight the legal remedies available for environmental protection and would discuss some landmark legal cases.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG Students

Time: 08.30-10.30 14.30-16.30

Days: Wednesday Thursday

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4567 - Built Form & Regulations

Credits: 2

Type: Lecture

Instructor/s: Brijesh Bhatha, Jignesh Mehta

Building regulations play key role in molding the built form and urban character of a city. Well-crafted regulations are crucial to achieve the envisioned urban form. This elective intends to focus on the relation between urban form and regulations through relevant historic and contemporary examples, culminating in hands-on exercise on developing sample building regulations.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all students

Time: 14.30-16.30

Days: Wednesday

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4568 - Legal Framework for Urban Environment Management

Credits: 2

Type: Lecture

Instructor/s: C.N.Ray, Ashwani Kumar

In the developing world, the rapid urbanization now under way will increasingly concentrate both population and economic growth in cities. The present course will look into details of the environmental laws and policies for the management of urban environment. Case studies will be used to highlight the importance of judiciary for urban environment management in India.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG Students

Time: 16.30-18.30

Days: Monday

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4576 - Governing Cities: Alternative Epistemologies of Power and Politics

Credits: 2

Type: Lecture

Instructor/s: Chandrika Parmar

This course is an attempt to explore various forms of governance in the city through the concept of Governmentality. Governmentality (Govern + mentality) is a term used by French scholar Michel Foucault to understand and unravel tacit forms of control. Using the concept of Governmentality, this course will attempt to look at the not so obvious systems of power and control in the city.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to to students

Time: 08.30-10.30

Days: Thursday

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5589 - Infrastructure Policy and Regulations (IED)

Credits: 3

Type: Lecture

Instructor/s: Pramod Yadav

This lecture course introduces students to the various policies and regulations concerning different sectors of infrastructure. The course covers the evolution of these policies, their application in the sector, and their impacts on the sector. Sector specific case studies are discussed in the latter part of the course. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-11.30

Days: Thursday

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5593 - Environment Impact Assessment for Infrastructure Projects (IED)

Credits: 2

Type: Lecture

Instructor/s: Tushar Bose

This lecture course investigates the fundamentals of Environmental Impact Assessment (EIA) as a set of decision tools for environment management, paying close attention to the necessity of both understanding the impacts of infrastructure projects on the surroundings, and mitigating these expected impacts. Case studies of EIAs are discussed, and evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students and UG 4th & 5th year students

Time: 08.30-10.30

Days: Monday

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Practice

1017 - Professional Practice

Credits: 2

Type: Lecture

Instructor/s: Parth Shah

Most students are unaware of the issues involved in practicing as a professional in society. This course introduces students to various aspects of architectural practice that include ethics, regulations, office organisation, project type and design methods. This course, in conjunction with 'specification and contracts', and prior exposure in practical training, allows students to understand the roles and responsibilities of a professional, and the mechanisms of a practice.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Practical training

Time: 08.30-10.30

Days: Wednesday

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1019 - Specification and Contracts

Credits: 2

Type: Lecture

Instructor/s: Jaydeep Bhagat

This course deals with the nature of building specifications and contracts, and their relevance to architectural practice. In particular, lectures explore the nature and type of building specifications and their implications on quality and certification of the building, as well as the various types of building contracts and their impact on the design and execution of projects, tendering procedures, and obligations of the client, consultant and the architect.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Stage 1 clearance

Time: 08.30-10.30

Days: Friday

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1050 - Office Training

Credits: 20

Type: Internship

Instructor/s: Sachin Soni

The 22 week office training exposes students to the processes and challenges of designing in the real world. Students are expected to learn various aspects of the design process including design development, working drawings, presentation drawings, site visits, client and consultant meetings, and project management.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Studio 6 Cleared

Time: 0

Days: 0

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2047 - Office Training

Credits: 20

Type:

Instructor/s:

This course is taken in various approved offices where the student will work as an intern.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Studio-IV and Interior Construction Drawing-1&2

Time: As per office schedule

Days: All Five days

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2068 - Design Management

Credits: 2

Type: Lecture

Instructor/s: Canna Patel

The course will familiarize students with the process of management of design practices. The students will be introduced to the various tasks and systems associated with the functioning of a practice and the documents and bills associated with them.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who are currently in 3d year and beyond are eligible for the course

Time: 08.30-10.30

Days: Wednesday

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5023 - Professional Practice for Engineers

Credits: 3

Type: Lecture

Instructor/s: Devanshu Pandit

This subject introduces students to civil engineering as a profession, engaging it with respect to construction offices in civil engineering, construction organizations' accounting and financial statements, consultancy organization, contracts and arbitration, and labour laws, Indian Contract Act, the study of construction organizations and their types, preparation of bids, and various types of contracts, as applied to the construction sector.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: For students other than UG FT, minimum 7th Semester and above level students

Time: 14.30-15.30, 14.30-16.30

Days: Wednesday, Thursday

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5079 - Project Management

Credits: 4

Type: Lecture Type 4

Instructor/s: Devanshu Pandit, Shridip Shah

In this course, students are made aware of basic and advanced project management function, and the tools and techniques applied toward the satisfactory completion of construction projects by achieving objectives of time, cost, quality and safety, while protecting and maintaining the environment. This course engages students with the role of scheduling and tracking in time management, methods of scheduling and tracking, support of software in scheduling, and the use of information available through scheduling and tracking. Students work with applications of various software in the field of construction.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 08.30-09.30, 10.30-13.30, 08.30-09.30, 09.30-10.30

Days: Monday, Monday, Tuesday, Friday

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5081 - Project

Credits: 5

Type: Lecture Type 4

Instructor/s: Reshma Shah, Jyoti Trivedi

In this studio, students apply the knowledge of "Know How" and learn the "Know Why" in a project's life cycle stages of a residential/commercial/industrial/infrastructure project. Students must take an ongoing construction project as a case study, and whatever processes have been implemented before, during and after construction, they must document and analyze.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: For students other than UG_FT, minimum 7th Semester and above level students. Preferably office training completed. For UG_FOT students project training clearnace is required.

Time: 14.30-15.30, 10.30-13.30, 10.30-13.30

Days: Tuesday, Wednesday, Thursday

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5089 - Quantity Surveying & Specifications

Credits: 3

Type: Lecture Type 4

Instructor/s: Devanshu Pandit, Bhargav Tewar

Quantity surveying is an essential skill for handling any civil engineering project. This subject introduces students to units of measurements, bills of materials, measurement methods and rate analysis of main construction activities. The subject deals with detailed calculations and estimations for activities through examples.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30, 14.30-16.30

Days: Tuesday, Thursday

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5500 - Construction Management - I

Credits: 6

Type: Studio

Instructor/s: P.V.Akalkotkar, Jyoti Trivedi

The studio addresses the culture, principles, and techniques of construction management. The project life cycles for different residential, infrastructure, industrial, project context: planning the project (project selection - tools and techniques), scope management defining the project. Project planning, work breakdown structures, Gantt Chart, PERT Chart, CPM, preparing the master plan, project budgeting, project criterion for success, project control (project baseline, status reporting, control cycle, monitoring and control tools, resource allocation, change control, resource leveling, variance reporting tools, project audit. Students have to select project and apply all the learning principles of conceptualization and planning of construction management on it.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 1st Semester students, Open to all PG students

Time: 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday

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5501 - Construction Finance & Accounting System

Credits: 3

Type: Lecture

Instructor/s: D.R.Patel, Mobin Shaikh

This Course focuses on Introduction to accounting: the nature and purpose of financing accounting, business entity, chart of accounts, recording accounting transactions, the accounting cycle, profit and loss statement, balance sheet, accounting ratios, accounting controls. Introduction to management accounting: cost classification, methods of costing, job costing and contract costing, integrated accounts. Introduction to Financial Management: project financing, budgeting, financial planning and cost control.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 1st Semester students, Open to all PG students

Time: 08.30-10.30, 08.30-10.30

Days: Wednesday, Friday

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5505 - Microsoft Project (MSP)

Credits: 3

Type: Lecture Type-2

Instructor/s: Jyoti Trivedi, Ajit Desai

MS Project has been especially developed as a project management software package and is a useful software application for planning, tracking and controlling large complex construction project. Project to web data and SharePoint information is available to be built in to the project file so that the project can be managed across continents via the internet or intranet allowing the use of a central pool of common resources to enable the project managers to efficiently interact and plan through project difficulties.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Open to PG students who had a knowledge of Basics of Planning and Scheduling tools

Time: 08.30-10.30, 14.30-18.30

Days: Monday, Thursday

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5566 - Mechanical Electrical Plumbing and Fire Fighting

Credits: 3

Type: Lecture

Instructor/s: Alpesh Panchal

This course covers the basic principles, types, and applications of mechanical, electrical and plumbing systems in commercial construction. It will cover many specific systems, including plumbing, heating, air conditioning, solar energy, power, lighting, fire protection, security, and sound control.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 3rd Semester students and Open to all PG students

Time: 14.30-17.30

Days: Friday

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5568 - Advanced Quantity Survey

Credits: 6

Type: Studio

Instructor/s: Amar Sanghavi, Ganesh Devkar

This is a practice based course which provides students exposure to quantity take-offs,rate-analysis of various items in construction project through software. It is a studio based course dealing with live construction projects. Expected outcome of students will detail Estimations of construction projects.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 3rd Semester students, Open to all PG students who had completed Fundamentals of Quantity Survey

Time: 10.30-13.30, 10.30-13.30

Days: Wednesday, Friday

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5569 - Strategic Planning for Construction Organizations

Credits: 3

Type: Lecture

Instructor/s: Dhaval Mehta

In the present day business world, no corporate manager is free to take decisions about the company's course of business without taking into consideration a host of government laws, policies and regulations. A substantial measure of discernment on the part of corporate management with regard to the relevance, applicability and observance of laws, regulations and policies appears necessary, if changes are to be introduced effectively in an organization. Thus the purpose of this course is to take a multidisciplinary approach to develop an appreciation for the top management view of the government environment, with its grounding firmly in the contexts of functional areas of business and their inter-linkages.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 3rd Semester students, Open to all PG students

Time: 11.30-13.30, 10.30-12.30

Days: Monday, Thursday

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5570 - ERP(Enterprise Resource Planning)

Credits: 2

Type: Lecture

Instructor/s: Ashwin Oza

This course delivers Enterprise Resource Planning (ERP) system that runs all business areas of a construction organization accounting and finance, HR, sales and distribution, production, purchasing and inventory. It is cross-functional, process-, real time, and based on industry best practices, from service to manufacturing to construction organization to not-for-profit. It is important that construction business and systems engineers obtain working knowledge of these as in their careers they will be ERP users, auditors, consultants, and/or developers.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Open to all PG students

Time: 08.30-10.30

Days: Monday

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5571 - Primavera

Credits: 3

Type: Lecture Type-2

Instructor/s: Jyoti Trivedi, Ajit Desai

Primavera is a project management software package and is a useful software application for planning, tracking and controlling large complex construction project. It is an advanced package of project management. Project to web data and SharePoint information is available to be built in to the project file so that the project can be managed across continents via the internet or intranet allowing the use of a central pool of common resources to enable the project managers to efficiently interact and plan through project difficulties.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Open to PG students who had a knowledge of Basics of Planning and Scheduling tools

Time: 08.30-10.30, 14.30-18.30

Days: Tuesday, Wednesday

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5582 - Professional Practice for Engineers (SED)

Credits: 2

Type: Lecture

Instructor/s: Bhairav Patel

To expose the students to the contemporary procedures of dealing with design management in an office and its implementation on site. It is also intended to introduce the students 'Code of Conduct' in force for engineers and related professionals and value system in the design profession.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 10.30-12.30

Days: Monday

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Research

1018 - Research Methods

Credits: 3

Type: Lecture

Instructor/s: Gauri Bharat

This introductory course on research methods, with emphasis on architecture, covers the entire gamut of designing and conducting research through a series of input lectures and assignments. Topics covered include writing the research proposal and its components, research design, various research methods commonly employed in architecture, methods of analysis, use of language, use of software, plagiarism and writing the research document.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Grasp of English knowledge

Time: 14.30-17.30

Days: Friday

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1020 - Thesis

Credits: 15

Type: Guided Research

Instructor/s: Sankalpa

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 0

Time: 0

Days: 0

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1545 - Orientation in Architecture

Credits: 2

Type: Lecture

Instructor/s: Urvi Desai (Coordinator), Brijesh Bhatha, Jigna Desai, Gauri Bharat

This course is an introduction to all the area specialization that is available for the students pursuing Masters of Architecture. Various area experts from both academic and practice perspective will deliver the input lectures. The emphasis will be on introducing the contemporary professional and academic challenges in each areas and introducing through case studies and key writing

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch Semester I students

Time: 08.30-10.30

Days: Friday

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1546 - Documenting and Communicating Architecture

Credits: 2

Type: Workshop

Instructor/s: Gauri Bharat

This course explores documentation methods and their potentials for different kinds of architectural representation. This is not a drawing course but a critical reflection on ways of drawing as ways of knowing and conceptualising built environments. Students will explore sketching in different media, analysis through architectural drawings, and documenting and representing of non-physical aspects such as space use. It is intended that students will revisit their basic documentation and representation skills to explore their potentials as tools for thinking.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch Semester I students

Time: 09.30-13.30

Days: Thursday

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1550 - Studio Seminar

Credits: 2

Type: Seminar

Instructor/s: Rajiv Kadam

This course supplements the UD studio on 'Urban transformation' by covering case studies and theoretical discussions relevant to the studio design exercises.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Registration in UD Studio 3: Urban transformation

Time: 08.30-10.30

Days: Tuesday

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1552 - Urban Design: Pre-Thesis Seminar

Credits: 2

Type: Seminar

Instructor/s: Brijesh Bhatha

This course develops basic skills and understanding required by students to undertake a thesis project. It helps students formulate a thesis proposal, explore data-collection/ fieldwork as relevant, understand analysis and learn to construct an argument.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M.Arch (UD) semester III students

Time: 08.30-10.30

Days: Friday

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1556 - Theory and Design: Pre-Thesis Seminar

Credits: 2

Type: Seminar

Instructor/s: Gauri Bharat

This course develops basic skills and understanding required by students to undertake a thesis project. It helps students formulate a thesis proposal, explore data-collection/ fieldwork as relevant, understand analysis and learn to construct an argument.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch (TD) Semester III

Time: 08.30-10.30

Days: Tuesday

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1559 - Studio III Seminar

Credits: 2

Type: Seminar

Instructor/s: Anjali Kadam

This course supplements the ASC studio on 'Settlement Studies' through input lectures relevant to the studio design exercises.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Registration in ASC Studio 3: Settlement studies

Time: 08.30-10.30

Days: Tuesday

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1571 - Sustainable Architecture Pre-Thesis Seminar

Credits: 2

Type: Seminar

Instructor/s: Urvi Desai

This course develops basic skills and understanding required by students to undertake a thesis project. It helps students formulate a thesis proposal, explore data-collection/ fieldwork as relevant, understand analysis and learn to construct an argument.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M.Arch sustainable architecture students

Time: 08.30-10.30

Days: Tuesday

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2022 - Thesis

Credits: 15

Type: Guided Research

Instructor/s: 0

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: 0

Time: 0

Days: 0

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2523 - Building Energy Efficiency - I

Credits: 4

Type: Studio

Instructor/s: Sanyogita Manu, Munjal Bhatt

The first module of this course aims at developing a broad understanding of

issues related to building energy efficiency and its significance in dealing with larger environmental challenges. It focuses on understanding the thermal, visual and aural environment via empirical and scientific approaches, treating the building as a complex and integrated system. It also covers theoretical aspects of building performance through lenses such as policy, technology, design and management. The second module guides students to explore energy performance in buildings with scientific rigour, to arrive at appropriate design decisions in real life problems. Students use hands-on exercises to learn about the principles of building physics and human comfort, employing as tools the various approaches available to a building designer.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in semester I in a PG program at Faculty of Design

Time: 10.30-13.30, 14.30-17.30

Days: Friday, Friday

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2524 - Developing a Thesis Proposal

Credits: 4

Type: Research Seminar

Instructor/s: Patrick McAndrews

This seminar course will help the students in developing research proposals for their thesis to be completed in the last semester of the program. Experts in each of the three streams will guide students to help identify appropriate research topics and scope of work for thesis. This will be done through periodic discussions and presentations by students. Three critical deliverables will be expected from the students during the course - selection of the thesis topic, formal approval from a subject expert to guide the thesis and a formal proposal approved by the guide.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in semester III in a PG program at Faculty of Design.

Time: 09.30-13.30

Days: Wednesday

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2525 - Research Writing

Credits: 3

Type: Research Seminar

Instructor/s: Patrick McAndrews

This course is aimed at students embarking on their postgraduate thesis proposal and thesis writing. The objective is to inculcate, through practice, the skills of critical thinking and reading, leading to better research writing and communication skills. All exercises in this course will ensure learning through the students' own research interest or focus. Students will be required to read extensively and develop short papers or essays based on their reading. They will acquire practice of standard research writing through case studies in their own fields of interest. By the end of the course, each student would be required to prepare an extensive and critical review of relevant literature pertaining to her research topic.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in semester III in a PG program at Faculty of Design.

Time: 10.30-13.30

Days: Monday

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2526 - Research Processes

Credits: 8

Type: Research Workshop

Instructor/s: Rishav Jain

This course will introduce the students to the processes involved in conducting research in the streams of energy efficiency, craft and technology and history, theory and criticism, based on the specialization selected by each student. It will provide them an opportunity to engage with the current research work being done at the Faculty under the guidance of expert researchers. The students will use the learning from this course in their research thesis in the succeeding semester. The course will be conducted through short research exercises from the research projects that are underway.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in semester III in a PG program at Faculty of Design.

Time: 14.30-17.30, 08.30-10.30, 14.30-18.30, 14.30-17.30

Days: Monday, Tuesday, Tuesday, Wednesday

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4042 - Qualitative and Participatory Methods

Credits: 2

Type: Lecture

Instructor/s: Ravi Sannabhadti, Jennifer Pieree

The course would orient the students to some of the qualitative and participatory methods available for data collection whether for research, program planning and management. The course would be delivered through a mix of lectures and hands-on exercises. Through these exercises, the students would be expected to engage in applying select techniques for their data collection purposes.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Only for B Plan

Time: 08.30-10.30

Days: Tuesday

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4538 - Planning Methods

Credits: 2

Type: Lecture

Instructor/s: C.N. Ray, Talat Munshi

This lecture course explores the application of quantitative and qualitative research methods and techniques to the analysis of planning problems. The course is structured in two basic sections. The first section deals with statistical methods and their application in data collection and analysis, and the second deals with qualitative methods and their application in data collection and analysis. It is envisaged that these methods will be used by the students in their practical labs and thesis. The course also highlights the various types of data available for to planners and its sources in India.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open for all P G students

Time: 08.30-10.30

Days: Tuesday

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5082 - Research Methodology

Credits: 3

Type: Lecture

Instructor/s: C.B. Shah, Ganesh Devkar

This lecture course exposes students to research methodology, to enable them to take up a research problem in their thesis work and also in their future research endeavors. Students develop skills with data collection and measurement, data presentation and analysis, report writing and presentation, and statistical analysis.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 09.30-10.30, 09.30-10.30, 09.30-10.30

Days: Tuesday, Thursday, Friday

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5565 - Research Methodology & Quantitative Techniques

Credits: 3

Type: Lecture

Instructor/s: Vivek Bhatt, Maulik Desai

This lecture course is designed to support students in developing their research project and to assist them in defining their mode of enquiry. The course has been constructed to guide students through a range of issues and considerations, which should appraise their general approach to research. It outlines: Principles of research, information sources, research design, research methodology, data collection, data analysis, presenting research proposals and writing research reports. Students engage in simulation exercises will be using SPSS to help reinforce the understanding of the Data Analysis behavior resulting to conclusion.This lecture course introduces students to basic statistical tools and quantitative methods. Good quantitative management skills are essential to be an effective project manager, and with the growing number of large scale projects that have broad societal impact.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 1st Semester students, Open to all PG students

Time: 14.30-17.30

Days: Wednesday

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5567 - Independent Study-II

Credits: 3

Type: Independent Study

Instructor/s: P.V.Akalkotkar, Jyoti Trivedi, Ganesh Devkar

This research study is an extension of independent study-I which takes the form of an investigation into a topic of significance to the construction sector, and is intended to ensure the capacity of the student to apply skills acquired within the prescribed courses. It is executed under the direction of one faculty instructor, and is examined by the submission of a written report, which is required to conform to the general standards within the PG program of Construction Engineering and Management. The design of the study is to explore students knowledge for further research work for their thesis.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 3rd Semester students and Open to PG students who had completed Independent Study-I.

Time: 14.30-17.30

Days: Monday

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5585 - Statistics (IED)

Credits: 3

Type: Lecture

Instructor/s: Bhargav Adhvaryu

This lecture course introduces students to quantitative tools and techniques for analysing and presenting data. The methods and techniques in this course are generally applicable to cross-disciplinary areas such as planning, design, and management. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 14.30-16.30

Days: Wednesday

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Science and Mathematics

1072 - Modeling, Simulations and Games

Credits: 2

Type: Lecture

Instructor/s: Nitin Raje

This course is an introduction to simulation modelling and games. It targets many critical questions, what is modelling? What is simulation? How are games related to these procedures? What are the benefits and pitfalls in modelling and simulation? What types of problems are suitable for simulation? The course is a series of lectures that are set out towards examining a number of approaches that have evolved and are predominant today together with several cases where these have been applied. These generally include areas where design decisions need to be evaluated with sensitivity to wider perspectives on human behaviour, ecology, environment, social sciences and technology. The course envisages making students familiar with the entire process, beginning from an initial problem set to the results and visualization techniques that are employed, taking examples from various spatial scales.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 4th year UG onwards + PG

Time: 08.30-10.30

Days: Thursday

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4006 - Statistics -1

Credits: 2

Type: Lecture

Instructor/s: Ami Divetiya

All of deal with lot of information and numbers in our day-to-day life. We try to understand the facts, make decisions and predict for the future. This calls for understanding and application of basic knowledge of statistics. Keeping this in view, the following topics are presented in this course. “Sampling procedure and construction of tools”-gives an insight into how data can be obtained in the way it can be treated statistically well. The topic of “arranging and presenting data” helps one to learn to be more presentable and analytical in presentation. Techniques like measures of central tendency and dispersion provides certain degrees of objectivity while making decisions. “Index numbers helps us to show changes in a variable or group of variables with respect to time, geographic location and such other characteristics. We learn to test whether two or more than two population proportions can be considered equal or not with the help of “Chi-square test”.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 08.30-10.30

Days: Monday

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5043 - Aplied Science

Credits: 4

Type: Studio

Instructor/s: V. P. Patel, G. M. Chippa, J.J.Vora

The objective of the proposed curriculum in Applied Science is to provide a sound foundation for the advanced topic in 'New Engineering materials, Non destructive testing, Applications of LASER, Water technology, Corrosion and Inhibition'. This will make the students understand the basic principles for Engineering applications. The students will also develop the research skills in the field for developing innovative products/ technology. It involves practicals to develop good laboratory skills (practical hands), to provide student an opportunity to learn theory aspects in better way. It also provides a kind of exposure at small scale level which will be helpful to them for their further research as well as in professional goals and objectives.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: Any 1st year UG students

Time: 10.30-13.30, 10.30-13.30, 16.30-18.30

Days: Monday, Wednesday, Friday

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5531 - Graph Theory and Applications

Credits: 3

Type: Lecture

Instructor/s: Jimmy Shethna

The course introduces the students on Graph Theory and its application in different fields. Vertices and edges which form a graph are used in solve various problems of Town planning, roads, computer networking and chemical bonding. Different applications and domain based problems can be modeled using Graph Theory.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 16.30-18.30, 16.30-17.30

Days: Wednesday, Friday

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5585 - Statistics (IED)

Credits: 3

Type: Lecture

Instructor/s: Bhargav Adhvaryu

This lecture course introduces students to quantitative tools and techniques for analysing and presenting data. The methods and techniques in this course are generally applicable to cross-disciplinary areas such as planning, design, and management. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 14.30-16.30

Days: Wednesday

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5595 - Environment Modeling (IED)

Credits: 2

Type: Lecture

Instructor/s: Tushar Bose, Saswat Bandyopadhyay

This lecture course is divided into two sections. The first section deals with modelling of air quality for point, line and area sources. The second part deals with modeling of water quality, estimation of floods, vulnerability assessment of ground water etc.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to PG students who have the knowledge of basic mathematics and interest in environment sciences

Time: 08.30-10.30

Days: Friday

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5596 - Remote Sensing: Theories & Practice

Credits: 3

Type: Lecture

Instructor/s: S.S.Palsule, Bindi Dave

Introduction to basic concept of the properties of electromagnetic radiation for surface information measurement, the physical process involved for obtaining spectral signatures based on these signatures targets are identified, various stages of remote sensing from data collection to end utilization are studied. It also gives historic perspective and the current global status of remote sensing system. This subject introduces the concept of optical Remote Sensors as instruments which measures radiance from suitable platform. Radiance is the property for surface object identification as function of spatial, spectral and temporal characteristics. The detailed activities of space and ground segment system of the Indian Remote Sensing program / Global program are also studied.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 09.30-11.30, 09.30-11.30

Days: Monday, Friday

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5597 - Geographical Information System

Credits: 3

Type: Lecture

Instructor/s: P.D.Yadav, Hardik Panchal

his course introduces principles, concepts and applications of Geographic Information Systems (GIS): a decision support tool for managers of spatial information. Database development, manipulation and spatial analysis techniques for information generation will be taught. Students will have the scope of using GIS for applications in their related fields such as natural resource management, environment, civil engineering, agriculture, information system, etc.; will be discussed through mini projects and laboratory exercise.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 14.30-16.30, 14.30-15.30

Days: Wednesday, Thursday

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5598 - Spatial Database

Credits: 3

Type: Lecture

Instructor/s: Jitendra Dadhania, Darshana Pawal

The goals of this course are to enable students to develop a good understanding of the principles and techniques of relational database design as they apply to spatial databases; apply these principles and techniques in designing and building spatial databases; and use spatial databases to perform common types of queries and spatial analysis.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Open to all PG students

Time: 08.30-10.30, 09.30-10.30

Days: Tuesday, Wednesday

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5599 - Geo-spatial Visualization

Credits: 6

Type: Studio

Instructor/s: Anjana Vyas, Komal Parikh, Darshana Rawal

This studio on inventoring and mapping of green space will focus on teaching the students techniques of surveying, inventorying and mapping in the GIS environment while taking a case study of gardens of the city of Ahmedabad. Learn how to use Total Station, GPS, Satellite Imagery and GIS through large scale hands-on and practical exercises. The questions like, how to map, what to map, and why to map will be addressed with the help of field visits and extensive survey. The major emphasis will be given to align the maps and applications with the database requirements; downloading the maps and application configuration with collected data and deploy the maps for decision support system.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Only for Geomatics 1st Sem Students

Time: 11.30-13.30, 10.30-13.30, 10.30-13.30, 11.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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5602 - Mathematics & Statistical Methods for Spatial Analysis

Credits: 2

Type: Lecture

Instructor/s: Jimmy Shethna

Statistical and mathematical modeling forms a strong base for geomatics applications. This lecture course aims to develop fundamental knowledge and interest among the students about foundational mathematical and statistical concepts, which are important prerequisites for geospatial technology. Focus would be more on statistical tools to generate results from raw data.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 16.30-18.30

Days: Monday

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5604 - Digital Photogrammetry and Terrain Modeling

Credits: 3

Type: Lecture

Instructor/s: S.S. Palsule, Bindi Dave

The objective of this subject is to learn science and technology of obtaining spatial measurements in three-dimension, system for terrain modelling & other geometrically reliable derived topographic structures at required scale from space-borne /air-borne sensor data. The recent digital photogrammetric soft copy system gives analytical procedures which can produce output from the digital data by obtaining distances, areas and elevation.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Students with Optical and Digital Image Processing Knowledge

Time: 15.30-17.30, 09.30-11.30

Days: Tuesday, Thursday

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5608 - Crowd sourcing and Community GIS

Credits: 3

Type: Lecture

Instructor/s: Darshana Rawal

A popular system ‘Crowd sourcing’ is the practice of obtaining needed services, ideas, or content by soliciting contributions from a large group of people, also from an online community. It represents a new intersection of people and technology with challenges and opportunities. It incorporates issues of developing effective design for human factors and human-computer interface, economics and ethics. The subject aims to motivate students to develop real-time projects through Crowd sourcing.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 15.30-17.30, 09.30-10.30

Days: Monday, Tuesday

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Services and Advance Technology

5010 - Building Services (Plumbing)

Credits: 3

Type: Lecture

Instructor/s: Dipsha Shah

This course covers the organization and operation of plumbing, water supply, and sanitation services within a premises. Students learn the planning, designing and construction aspects for connection up to the main lines. This subject covers topics such as plumbing hydraulics and pneumatics, types of plumbing fixtures based on requirements, plumbing materials, storage, appurtenances, water supply and drainage systems.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 16.30-17.30, 15.30-16.30, 08.30-09.30

Days: Monday, Thursday , Friday

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5020 - RCC Design Studio

Credits: 4

Type: Studio

Instructor/s: Anal Sheth, Parth Thaker

This course introduces the structural design aspects of RCC structures. The course shall cover design of typical RCC elements by limit state philosophy. The objective of the course is to equip students to work out structural design of an RCC frame structure and develop analytical and design skills required in structural engineering practice.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: Structural Analysis or equivalent

Time: 10.30-13.30, 10.30-13.30

Days: Wednesday, Thursday

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5075 - Construction Technology III

Credits: 4

Type: Lecture Type 2

Instructor/s: Japan Shah, Hitendra Soni, Tushar Patel

This course engages students with the knowledge of various materials, methods used in construction and different services for industrial buildings. It covers topics such as steel structures, steel work, false ceilings, ventilation, thermal insulation, and large span RCC roofs. All topics will be enhanced with related drawing and documentation practice.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 10.30-13.30, 08.30-09.30, 08.30-09.30

Days: Monday, Thursday, Friday

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5076 - Water & Waste Water Engineering

Credits: 3

Type: Lecture

Instructor/s: Dipsha Shah

This course provides students with an understanding of the basic principles of water and wastewater treatment, and their disposal. The course focuses on real time examples, through study on site visits, and through case study research. Students are also expected to design water and waste water treatment units.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 10.30-13.30

Days: Thursday

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5080 - Structural Failures, Repairs & Rehabilitation

Credits: 4

Type: Lecture Type 3

Instructor/s: Pavni Pandya, Mehul Vyas

In this course students are exposed to various causes due to which and the structures are distressed at an early age and in some cases also collapsed. This course equips student to diagnose the distressed/determinated structures along with various materials & systems used for repairing and rehabilitating such defective structures.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30, 10.30-13.30

Days: Wednesday, Friday

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5083 - Bridge Engineering

Credits: 4

Type: Lecture Type 4

Instructor/s: Mukesh Majeethia

This course apprises students of bridge engineering, enable them to design simple bridge structures. Specific topics covered are an introduction to bridges, determination of design discharge, loads on bridges, design of culverts, design of deep foundations, construction methods and erection techniques, bearing and expansion joints.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 08.30-10.30, 08.30-10.30, 08.30-09.30

Days: Monday, Wednesday, Friday

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5520 - Port Planning and Management (IED)

Credits: 2

Type: Lecture

Instructor/s: Mihir Das

This lecture course introduces the port as a sector of infrastructure. The course covers the elements of port structures, their conceptualization, planning, and engineering implementation. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-10.30

Days: Monday

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5566 - Mechanical Electrical Plumbing and Fire Fighting

Credits: 3

Type: Lecture

Instructor/s: Alpesh Panchal

This course covers the basic principles, types, and applications of mechanical, electrical and plumbing systems in commercial construction. It will cover many specific systems, including plumbing, heating, air conditioning, solar energy, power, lighting, fire protection, security, and sound control.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 3rd Semester students and Open to all PG students

Time: 14.30-17.30

Days: Friday

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5584 - Introduction to Urban Infrastructure Systems (IED)

Credits: 3

Type: Lecture

Instructor/s: Tushar Bose, Shailaja Pandit

This lecture course provides students with an understanding of the basics of infrastructure sectors, and is a foundation course for gaining insights into the urban infrastructure sector. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-09.30, 08.30-10.30

Days: Tuesday, Wednesday

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5594 - Real Estate Design and Management (IED)

Credits: 2

Type: Lecture

Instructor/s: Charanjeet Singh

This lecture course demystifies the development process by providing students with the opportunity to expand and integrate their understanding of such areas as finance, land-use planning, and development policy. This course also introduces fundamental concepts, principles, analytical methods and tools useful for making investment and finance decisions. Evaluation is based on class

participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-10.30

Days: Tuesday

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Studio

1000 - Studio 1

Credits: 8

Type: Studio

Instructor/s: Sachin Soni, Puneet Mehrotra, Krishnakant Parmar

As the first introduction to creative exploration of the built environment, this studio explores the principles of space making. The taught skills of the course include recording the built environment, model making and sketches as tools of expression, the idea of the human body and its measurement, and basic principles of space making. This is done through a series of exercises and short design projects.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Admission in FA UG program, mandatory for FA UG

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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1005 - Studio 3

Credits: 6

Type: Studio

Instructor/s: Sankalpa, Ayaz Pathan, Alex D'Aram

Studio 3 A (Sankalpa)

The theme of this studio is the 'grammar of form'. The focus is on understanding structure as organized distribution of material, which in turn is seen as a response to program, climate, and form character. Concepts of modularity and grid, and their architectural expressions are explored. The relationship between structure, form, and program is discussed through study and analysis of natural and manmade structural systems.

Studio 3 B (Ayaz Pathan, Alex D'Aram)
This project intends to investigate into 'processes' in Architectural design activity. One of the important components in that is the process of Transformation of experiential data into architectural form and space making through different levels of interpretation. The students will be given an image and a simple program to start with. The students are encouraged to explore various model making and representation techniques to help them drift at this stage, and arrive at a form. The second half of the project is about the realization of this abstract form in to an actual building

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Studio 1, Mandatory for FA UG

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday,

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1010 - Studio 5

Credits: 6

Type: Studio

Instructor/s: Gauri Bharat, Aparna Joshi, Vishwanath Kashikar, Ujjaval Parekh

Studio 5 A (Gauri Bharat, Aparna Joshi)

This studio interprets the character of institutions as an interplay among various factors. Contextual factors like site, surroundings, and landscape are introduced, along with the development of an architectural language that emerges from the integration of design details with larger concepts. All these come through the program of an institution.

Studio 5 B (Vishwanath Kashikar, Ujjaval Parekh)

This studio explores the question of identity in architecture as a result of globalization. Identity as projected to society at large and as perceived by the inhabitants of the building are emphasized. Integration of services and design will be an integral aspect of this studio. This will be explored through a programme of a commercial building in an urban setting.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Studio 3

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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1015 - Studio 8

Credits: 8

Type: Studio

Instructor/s: Nitin Raje

This studio focuses on two important aspects of design education: an architectural response to the urban setting, and an exploration of design methods.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Office training + studio 6

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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1016 - Studio 9

Credits: 8

Type: Studio

Instructor/s: Pratyush Shankar, Milind Patel, Purvi Bhatt

In this studio, students design their own architectural program and building based on their interests and chosen direction. Emphasis is given on program formulation, identification of theoretical concepts and selection of appropriate design processes.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Studio 8

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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1516 - Landscape Design Studio – I - MLA

Credits: 9

Type: Studio

Instructor/s: Divya Shah, Anjali Jain

To examine the landscape architectural design process and basic design vocabulary, including site analysis, program development and concepts of spatial order, scale, complexity, perception and visual presentation.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Only for MLA 1st Semester students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday

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1517 - Landscape Design Studio – I - MLD

Credits: 9

Type: Studio

Instructor/s: Parin Shah, Anjali Jain

To examine the fundamentals of space making by abstraction, mapping and analytical methods of graphic representation is the primary objective of this studio. The students will begin with small landscapes and evolve to resolution of complicated landscape spaces which will have permutations and combinations of multiple events and processes.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Only for MLD 1st Semester students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday

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1543 - Foundation Studio

Credits: 9

Type: Studio

Instructor/s: Jigna Desai, Giulia Setti

This studio offers an introduction to various specialisations within architecture through a design project in an urban context. It will incorporate different theories and approaches in urban design, conservation, history and theory and focus on how different ways of architectural thinking come together in the design of built environments. Students are expected to demonstrate an ability to analyse contextual conditions, conceptualise and develop a design project across different scales of architectural thinking.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch Semester I students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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1549 - Studio III: Urban Transformation

Credits: 8

Type: Studio

Instructor/s: Rajiv Kadam, Manan Singhal

This studio examines that in the process of growth and change a number of areas, buildings and open spaces become obsolete. The city offers opportunities for renewal/ restructuring of such areas. This studio focuses on such transformations. The issues addressed are - does it make sense to discuss 'context', senses of place, and 'character' in a fragmented city? How do we address the present tools/ mechanisms? What are our concepts of sustainability, neighbourhood, public-private divide, control and freedom? Can we guide preferred change?

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: M. Arch (UD) Semester I

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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1553 - Studio III: New Urbanity, New Meanings

Credits: 8

Type: Studio

Instructor/s: Jaydeep Bhagat, Anjali Kadam

The studio will be supported by related theories/ lectures. This studio is concerned with the urban condition with respect to both theory and design. It will focus on changing nature of urban spaces, while also considering globalisation and changes in technology. Students will be expected to consider a philosophical position and expressing it through design.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M.Arch (TD) Semester III students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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1557 - Studio III: Settlement Studies

Credits: 8

Type: Studio

Instructor/s: Khushi Shah

The studio focuses on Settlement Conservation. The Historic city of Ahmedabad has been the laboratory for the program since the past six years. The issues related to identifying the significance of various elements of a settlement and the challenges of conserving a living urban area are in the forefront of the studio. As a part of the studio, workshops related to urban infrastructure and quality of life are conducted to understand the nature of change needed while maintaining continuity in historic environments.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch (ASC) Semester III

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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1560 - Studio III: Optimal Building

Credits: 8

Type: Studio

Instructor/s: Urvi Desai

This studio is concerned with climate, culture, and energy efficiency. Students will be expected to develop a program and develop a design in a complex urban context.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch (SA) Semester III

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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1568 - Landscape Design Studio –III - MLA / MLD

Credits: 9

Type: Studio

Instructor/s: Deepa Maheshwari, Sandip Patil

The Studio deals with a landscape design project that extends beyond the realm of design solutions and integrated with various professional spheres simultaneously while also considering the specific situations and constraints provided by the studio faculty. As a part of studio, students also undertake project study at a regional scale which deals with natural resource management.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Only for MLA-MLD 3rd Semester students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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2000 - Basic Design - I

Credits: 6

Type: Studio

Instructor/s: Krishna Shastri, Jay Thakkar, Kamalika Bose, Rajesh Sagara

This studio is an introduction to design principles and ordering systems. Exercises explore the translation of verbal (adjectives and verbs) to visual through compositions both in two- and three- dimensions. Studio work also focuses on understanding physical dimensions through exercises in ergonomics and anthropometric studies. These aspects will be learned through experience. The studio will also address components of writing and communication to allow and facilitate reflective directions in design.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students registered for Semester -1 at Faculty of Design

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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2007 - Studio - I

Credits: 6

Type: Studio

Instructor/s: Shrutie Tamboli, Sakthivel, Henri S , Aditi Vashisht

This studio facilitates the design of spatial interventions in response to physical and visual attributes of a given site context. The emphasis of exercises is upon the application of the structural understanding, experimentation with different materials, through models and development of prototypes.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Basic Design - II from Faculty of Design along with TRD - I, and S&M, Structure & Material (Construction Technology) I & II (or TRD - I, II, Basic Structure - I, II & BMMC - I,II from the old curriculum)

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30,

Days: Monday, Wednesday, Friday

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2008 - Furniture Design - I

Credits: 4

Type: Design Workshop

Instructor/s: Samir Bhatt, Jay Thakkar, Shailesh Manke

This workshop focuses on understanding furniture design from the perspective of its evolution in history, the development of design styles, as well as the pragmatic aspects of ergonomics and comfort. Exercises involve appreciating classic pieces of furniture, understanding ergonomics through experience, and applying that understanding to the design of a rudimentary piece of furniture. (BLOCK COURSE)

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Basic Design - II from Faculty of Design and Structure & Material (Construction Technology) I & II (or Basic Structure - I, II & BMMC - I,II from the old curriculum) are eligible for the course.

Time: 14.30-17.30, 14.30-17.30, 14.30-17.30, 10.30-13.30

Days: Monday, Tuesday, Wednesday, Thursday

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2013 - Studio - III

Credits: 6

Type: Studio

Instructor/s: Manisha Basu, Snehal Nagarsheth, Rishav Jain

The studio addresses the act of dwelling. It focuses on socio-cultural aspects of needs and specificities to develop design bearings. The emphasis is on development of interior language to address issues of inhabitation while engaging with program of dwelling in the given architectural spaces.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Interior Design Studio - II, Furniture Design - II (or Space Planning - II & Furniture Design - II from the old curriculum)

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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2018 - Interior Design Studio - VI

Credits: 8

Type: Studio

Instructor/s: Kireet Patel, Gurjit Singh, Rathin Goghari

This studio addresses interior design from a broad perspective, positioning design in the larger context of ideologies, thoughts, concerns and issues. Students work on projects of their choice, and develop an individual approach towards tackling complex design issues.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have successfully completed Office Training and cleared Interior Design Studio - IV from the Faculty of Design are eligible for the course.

Time: 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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2522 - Craft: Processes, Collaboration and Cultural Perception

Credits: 4

Type: Studio

Instructor/s: Jay Thakkar, Kireet Patel

The first module introduces students to the larger overview of crafts in reference to India wherein the focus will be on study of the crafts related to the Interior Architecture with a cluster approach. The students will understand various processes associated with Craft and Craft Practices like human resource, skills, material, tools, techniques, systems of application and production, supply chain mechanisms and markets. These issues will be understood in reference to the traditional and current practices of craft by means of lectures, presentations, discussions, mapping, documentation and field work to various places in Gujarat. This module further looks at Craft-Design Collaboration. Through the learning from the first module, student will evolve an understanding of current needs and aspiration of craftspeople and define the role of design within the craft practices. They will engage with crafts through the process of design intervention. This will be done through hands-on exploration to acquire the material understanding and skills of making and to gain an intrinsic understanding of the craft-design process.

The second module emphasizes upon the tangibles and intangibles related to craft, focusing on the concept of crafts in Indian society. The cultural perceptions, ethos and values related to craft are studied with an understanding of cross-cultural influences, and the cultural and associational relevance of craft are discussed in detail. With craftspeople and the community at the core of inquiry, the course involves field visits to craft clusters and various communities. Also the cultural and associational relevance and importance of craft in the traditional built environment will be discussed in detail.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 10.30-13.30, 14.30-17.30

Days: Thursday, Thursday

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2523 - Building Energy Efficiency - I

Credits: 4

Type: Studio

Instructor/s: Sanyogita Manu, Munjal Bhatt

The first module of this course aims at developing a broad understanding of issues related to building energy efficiency and its significance in dealing with larger environmental challenges. It focuses on understanding the thermal, visual and aural environment via empirical and scientific approaches, treating the building as a complex and integrated system. It also covers theoretical aspects of building performance through lenses such as policy, technology, design and management. The second module guides students to explore energy performance in buildings with scientific rigour, to arrive at appropriate design decisions in real life problems. Students use hands-on exercises to learn about the principles of building physics and human comfort, employing as tools the various approaches available to a building designer.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 10.30-13.30, 14.30-17.30

Days: Friday, Friday

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3000 - Facilities Management

Credits: 9

Type: Studio

Instructor/s: Mercy Samuel, Nimit Karia, Shreekant Iyengar, Jayshree Rammohan, Manvita Baradi

This is the introductory studio of the Habitat Management program. The Facilities Management studio aims at imparting the skills required for managing the smallest unit of an urban area. These units would include living and work environments namely housing societies, institutions, and/ or commercial establishments. The studio will focus on preparing management solutions for the respective focus areas to include operations and maintenance regimes of infrastructure and services - water supply, solid waste, parking, open spaces, waste water, safety and security, etc

The studio begins with a set of sessions on building the basic skills of effective communication and quantitative techniques. The studio will bring in concepts and understanding of urban areas - its demographics, governance and legislation. The course work involves site visits, analysis and presentations. Students will be evaluated on overall performance with weekly assessments.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: Only MHM Sem I students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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3019 - Services Improvement Management

Credits: 9

Type: Studio

Instructor/s: Manvita Baradi, Meghna Malhotra, Margie Parikh, Utkarsh Patel, Rajan Raval, Devanshu Pandit, Shelly Kulshrestha(AA)

The studio exercise will focus on developing skills and tools to enhance efficiency of city level services. Students will work towards developing a performance assessment and monitoring system for urban utilities. Through a structured process of data analysis and gap assessment, students will be expected to identify the key challenges in operations, maintenance and overall management of urban utilities. The objective of the exercise is to enhance energy efficiency in urban utilities; build effectiveness in administration, human resource and monitoring systems and to develop financing strategy for operation and maintenance of the utilities. The key outcomes of the studio exercise will be preparation of services performance monitoring plan.

The studio will strengthen skills in qualitative and quantitative research. It will bring in the concept of energy management. The course work will involve site visits, in-class discussions and presentations. Students will be evaluated on overall performance with weekly assessments.

Faculty: Management

Program: Postgraduate Program in Habitat Management

Prerequisites: Only MHM sem III students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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4008 - Urban Lab -II (Neighbourhood Scale)

Credits: 6

Type: Studio

Instructor/s: Yatin Pandya, Neha Mehta, Parul Choudhary

Intent of the course is to help students realize the dynamics of living environents, especially the neighbourhoods to understand corelation between, physical, socio-cultural, environmental and socio-economic dimensions of the built environments. The course is divided in to three dimensions: Experiencing, Interpreting and Apllying. The lab entails first hand study of lived in neighbouhoods in Indian cities and observe the dynamics, behavioural response and identify the issues as well as oppotunities to render them as humane and sustainable neighbourhoods. It then applies this understanding to a realistic site to create physical environments through basic tools of masterplanning namely, movement networks, open spaces, builtform, infrastructure network and planning norms. Conduct of the course involves site visits, interpretative seminars as well as design studio.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: only for B Plan students. Who have cleared previous lab

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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4011 - Area Planning Lab

Credits: 6

Type: Studio

Instructor/s: Ram Patel, Rutool Sharma, Purvi Patel, Jennifer Pieree,Lokendra Balasaria

Focus of this lab exercise is to introduce students to complex process of urban planning. Students will be exposed to various components of an urban plan, through which a planner can guide and regulate development. These generally include - components within public realm and regulations related to land use as well as built form. Intended output of this exercise will be to redesign and reconfigure the public realm; as well as to propose suitable planning norms related to land use and built form.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Only for B Plan students. Who have cleared previous lab

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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4047 - Regional Planning Lab (Taluka level)

Credits: 6

Type: Studio

Instructor/s: R. Parthasarathy, Anil Roy, Ajay Katuri, Charanjeet Singh, Chandrima

The Regional Planning Lab would focus on sustainable and inclusive planning toward suggesting a suitable economic planning base to promote a balanced development. Toward this end, the potential of the region in terms of resources as well as land use both would be assessed. Infrastructure and environmental driving forces and critical boundaries would also be explored..

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Only for B Plan students, who have cleared previous lab

Time: 10.30-13.30 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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4500 - Area Planning Laboratory Exercise

Credits: 9

Type: Studio

Instructor/s: Bimal Patel, Rutul Joshi, Ravi Sannabhadti, Ashima Banker, Chirayu Bhatt, Deepa Dave, Subhrangsu Goswami, Jignesh Mehta, Brijesh Bhatha, Mellisa Smith-Bandukwala

Urban planning is a continuous technical and political process, primarily concerned with the public realm and the people of an urban area. In order to ensure good quality of life, planning for the public realm regulates the use of land and built form, plans and designs transportation networks and related infrastructure, plans for basic services like water, sanitation, drainage and solid waste collection, and works toward meaningful co-habitation with the natural environment. The area planning project makes students aware of the interactions among these elements through the lens of an area level plan; a rational outcome of a process that carefully balances the needs of people, conflicting interests, efficient public systems, financial or administrative constraints with the broad goals of sustainability and social equity. Students are expected to apply basic principles of urban planning in key debates as part of the studio, as well as participate in input lectures and field visits.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Only for M. Plan students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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4558 - Regional Planning Studio

Credits: 8

Type: Studio

Instructor/s: Shrawan Kumar Acharya, C.N.Ray, Vishal Dubey, Ashwani Kumar, Dinesh Mehta, Himanshu Thakkar

Regionalization of space in to the planning regions identifies and ascertains the spatial imbalance with the formulation of target groups & natural resources regions and nodal areas. Contextually, the regional planning module lab provides an imperativeness of analytic tools and empiric for re-organizing and optimizing the distribution of development with generalization of spatial complexity

Faculty: 0

Program: Postgraduate Program in Planning

Prerequisites: Only for M.Plan students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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4559 - Environmental Planning Studio

Credits: 8

Type: Studio

Instructor/s: Saswat Bandyopadhyay

The studio on EIA focuses on training the students in carrying out the exercise practically in field. The stress on the field observations, surveys and verification of physical and social environment, which cannot be replicated in the class room condition is main strengthen ion the studio. The participants bring out the environmental management strategy and plan for mitigating the impacts.

Faculty: 0

Program: Postgraduate Program in Planning

Prerequisites: Only for M.Plan Students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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4560 - Infrastructure Project studio

Credits: 8

Type: Studio

Instructor/s: Mona Iyer, Meera Mehta

Development activities for improvement in various urban infrastructure services involve plan preparation, project formulation, implementation and regular monitoring. Often, the absence of a comprehensive city wide plan and inadequate understanding and/or attention to inter-sectoral issues results in poor services. With this view and to equip students with understanding of plan formulation process and tools and techniques of identification of such 'projects' the studio exercise has been designed with city water and sanitation as the core theme. It aims to develop amongst students an understanding of concepts of institutional, technical, financial, stakeholder and resource assessment to develop project options for a city wide approach to water and sanitation service delivery.

Faculty: 0

Program: Postgraduate Program in Planning

Prerequisites: Only for M.Plan Students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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4561 - Transportation Detail Project Report Studio

Credits: 8

Type: Studio

Instructor/s: Abhijit Lokre

Students in this laboratory will get comprehensive understanding of detailed project report. Detailed Project Reports of urban transport projects are mandatory in seeking government funds in India. The students will prepare a DPR for an urban transport project in line with the National Urban Transport Policy, approved by the Government of India in April, 2006.

Faculty: 0

Program: Postgraduate Program in Planning

Prerequisites: Only for M.Plan Students

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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5500 - Construction Management - I

Credits: 6

Type: Studio

Instructor/s: P.V.Akalkotkar, Jyoti Trivedi

The studio addresses the culture, principles, and techniques of construction management. The project life cycles for different residential, infrastructure, industrial, project context: planning the project (project selection - tools and techniques), scope management defining the project. Project planning, work breakdown structures, Gantt Chart, PERT Chart, CPM, preparing the master plan, project budgeting, project criterion for success, project control (project baseline, status reporting, control cycle, monitoring and control tools, resource allocation, change control, resource leveling, variance reporting tools, project audit. Students have to select project and apply all the learning principles of conceptualization and planning of construction management on it.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 1st Semester students, Open to all PG students

Time: 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday

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5510 - Studio-1-Gravity Structures (SED)

Credits: 4

Type: Studio

Instructor/s: Dhara Shah, Bhairav Patel, Mehul Shah

This is one of the exclusive studio courses offered wherein fresh BE students are given individually ongoing low rise structure projects to analyze, design and detail manually for gravity loads. Core faculty along with the visiting professionals from the field imparts their knowledge and share valuable experience in developing the whole studio.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 1st Semester students

Time: 10.30-12.30, 10.30-12.30

Days: Monday, Wednesday

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5568 - Advanced Quantity Survey

Credits: 6

Type: Studio

Instructor/s: Amar Sanghavi, Ganesh Devkar

This is a practice based course which provides students exposure to quantity take-offs,rate-analysis of various items in construction project through software. It is a studio based course dealing with live construction projects. Expected outcome of students will detail Estimations of construction projects.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 3rd Semester students, Open to all PG students who had completed Fundamentals of Quantity Survey

Time: 10.30-13.30, 10.30-13.30

Days: Wednesday, Friday

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5587 - Ward-level Infrastructure Design Studio (IED)

Credits: 6

Type: Studio

Instructor/s: Tushar Bose, Shailaja Pandit, Anal Sheth

This studio covers basic aspects of infrastructure planning . It focuses mainly on conceptualization and design of the basic infrastructure facilities like water supply, sewerage and solid waste management facility at the town planning scheme level. Evaluation is based on class participation, assignments and mid-term and final juries.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MIED 1st Semester students

Time: 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday

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5592 - Transport Infrastructure Design (IED)

Credits: 6

Type: Studio

Instructor/s: Bhargav Adhvaryu, Anuj Malhotra

This studio focuses on the preparation of a detailed project report for the urban transport infrastructure of a city. It entails elements like detailed design, schematic costing, financing, and implementation mechanism. Evaluation is based on class participation, assignments and mid-term and final juries.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MIED 3rd Semester students

Time: 10.30-13.30, 10.30-13.30

Days: Monday, Friday

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Technical Drawing and Visualization

1002 - Visualization and Representation 1

Credits: 5

Type: Workshop

Instructor/s: Dilip Panchal, Arundati Saikia, Kinny Soni,

This workshop emphasizes drawing as a medium of communication for basic vocabulary in architecture. Students learn to represent different objects through 2D and 3D geometry thereby developing visualization skills. Contents include orthographic projections, surface development, auxiliary projections, axonometric and isometric drawings.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Admission in FA UG program, mandatory for FA UG

Time: 14.30-18.30, 08.30-10.30, 14.30-18.30

Days: Monday, Tuesday, Tuesday

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1039 - Modeling and Simulation

Credits: 2

Type: Workshop

Instructor/s: Ujjval Panchal, Urvi Sheth

Various methods of visualization through simulation are the core of this workshop. Special emphasis is laid on the use of digital techniques as a design tool, equipping students to use multiple techniques in design thinking. Experimentation, innovation and exploration are encouraged. this course will equip a student in multiple techniques in design thinking

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 2nd year and above UG students and PG students

Time: 16.30-18.30, 14.30-16.30

Days: Tuesday, Friday

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2001 - VR-Technical Representation Drawings

Credits: 3

Type: Workshop

Instructor/s: Kireet Patel

This workshop focuses on two - and three-dimensional geometry and its representation through drawing. It familiarizes students with drawing materials and equipment, and makes them aware of the significance of precision and accuracy in technical drawings. The exercises in this course involve the understanding and representation of principles of geometry, orthographic projections of points, lines, planes and solids, sections of simple and complex solids and the development of the surfaces of solids.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have registered for or cleared Basic Design - I at the Faculty of Design are eligible for the course.

Time: 14.30-17.30, 14.30-17.30

Days: Tuesday, Thursday

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2015 - Interior Construction Drawing - I

Credits: 4

Type: Design Workshop

Instructor/s: Amal Shah, Ramesh Patel

This workshop focuses on the communication of technical details in the process of construction. This course gives students an understanding of the services (Electrical & Plumbing) in interior spaces and exposes them to the materials used, elements required, techniques of installation, designing the services in interior spaces and elements with step by step actualization on site. Students make working drawings for kitchens and toilets.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Interior Design Studio - II (or Space Planning - II from the old curriculum), BMMC - 2 as well as Digi. Tech. - I from the old curriculum (or have a sound knowledge of AutoCad 2D) will be eligible for the course

Time: 14.30-17.30, 14.30-17.30

Days: Wednesday, Friday

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2044 - Interior Construction Drawing-II

Credits: 3

Type: Design Workshop

Instructor/s: Amal Shah, Ramesh Patel

The course focuses on the communication of technical details in the process of construction. Students learn to make working drawings with systems and employing a holistic approach.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: UG students: Cleared Interior Design Studio - III, ICD-1 as well as Digi. Tech. - I and BMMC - 2 from the old curriculum

Time: 14.30-17.30, 14.30-17.30

Days: Wednesday, Friday

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2060 - VR-Graphic Design

Credits: 3

Type: Workshop

Instructor/s:

Kamalika Bose, Jaai Kakani

This workshop utilizes graphic methods and techniques as tools of visual representation. The course work introduces students to the principles of visual perception, and to various techniques of graphical representation. Exercises deal with the representation of simple objects and processes through different techniques and media. (BLOCK COURSE)

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Basic Design - I from Faculty of Design & VR - Drawing with Color course. (or Colour Workshop & Sketching with Colour form the old curriculum)

Time: 14.30-17.30, 14.30-17.30, 14.30-17.30, 10.30-13.30

Days: Monday, Tuesday, Wednesday, Thursday

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2070 - 2D to 3D

Credits: 2

Type: Workshop

Instructor/s: Henry Skupniewicz

Form is, whether we admit it or not, about material and fabrication. Without a proper understanding of the later two, the former will be meaningless. This class explores everything from bending to folding, origami to laser cutting - whatever relates to making - 2D materials into 3D forms. Students will develop mastery over these skills through hands-on activities and assignments.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: All years, All faculty (Seat Limit of 8 students)

Time: 08.30-10.30, 08.30-10.30

Days: Wednesday, Friday

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5002 - Engineering Drawing

Credits: 4

Type: Studio

Instructor/s: Bhushan Sachdeva, Yogesh Gandevikar

This studio trains students to understand, visualize and represent simple geometric shapes and forms in both two and three dimensions, with available tools and methods of representation. Students also learn to both read and develop technical drawings using analog drafting instruments.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 10.30-13.30, 10.30-13.30

Days: Thursday, Friday

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5510 - Studio-1-Gravity Structures (SED)

Credits: 4

Type: Studio

Instructor/s: Dhara Shah, Bhairav Patel, Mehul Shah

This is one of the exclusive studio courses offered wherein fresh BE students are given individually ongoing low rise structure projects to analyze, design and detail manually for gravity loads. Core faculty along with the visiting professionals from the field imparts their knowledge and share valuable experience in developing the whole studio.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 1st Semester students

Time: 10.30-12.30, 10.30-12.30

Days: Monday, Wednesday

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5580 - Studio-3, Special Structures (SED)

Credits: 6

Type: Studio

Instructor/s: Aanal Shah, Rakesh Shah, Hiten Shah, Neha Banker, Devang Patel

An extension of studio-1,2 wherein each student is dealing with a special structure. Design and detailing aspects of special structures: chimneys, silos, industrial structures and water tanks. Individual project from one of the special structures listed above is allocated to each student for which they analyze, design and detail the whole structure. A site visit is arranged to understand the hidden aspects of design, construction and detailing.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for MSED 3rd Semester students

Time: 10.30-13.30, 10.30-13.30

Days: Wednesday, Thursday

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5600 - Mapping and Cartography

Credits: 3

Type: Lecture

Instructor/s: Nartan Rajpriya, Hardik Panchal

Through this course students confront realistic problem scenarios that incorporate skills and concepts as creating symbolization schemes, coordinate systems and map projections, creating isoline and other terrain representations, interpolation, classification schemes, multivariate representation and representation of data uncertainty. Those who successfully complete the course are able to design and produce effective reference and thematic maps using GIS software, and can interpret and critique maps and related information graphics.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 16.30-17.30, 15.30-16.30, 15.30-16.30

Days: Tuesday, Thursday, Friday

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5603 - Spatial Planning, Urbanism and Geomatics

Credits: 3

Type: Lecture

Instructor/s: Anjana Vyas, Hardik Panchal

The students will gain knowledge about the Geographic Information Science & Technology and its relevance for contemporary spatial planning and urbanism at various spatial and temporal scale levels. This will contain the processing of geospatial data, identify and use of various sources of geospatial data, remote sensing data and become familiar with the concept and application potential of Spatial Decision Support Systems and Spatial Planning Support Systems.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 15.30-16.30, 14.30-16.30

Days: Monday, Tuesday

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5606 - Web GIS and Server Architecture

Credits: 3

Type: Lecture

Instructor/s: Sunit Surti, Darshana Rawal

This course is designed as an introduction to Web GIS, to the programming concepts underlying construction and implementation of high quality web mapping applications. Instruction is provided in commonly used open source GIS and related programming tools for customizing web-based mapping applications, and development of distributed web services for GIS. In addition, an overview of common proprietary web mapping software like ERSI ArcServer is also taught.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Students with knowledge of Programming Language and GIS

Time: 08.30-09.30, 08.30-09.30, 08.30-09.30

Days: Tuesday, Thursday, Friday

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5607 - Enterprise GIS

Credits: 6

Type: Studio

Instructor/s: Charanjeet Singh, Shaily Gandhi, Hardik Panchal

The primary objective is to help students develop knowledge and skills necessary to conceptualize and develop a web based GIS application that contributes to City planning and management. The students will work with various web-authoring platforms to develop prototype for a dynamic GIS platform wherein community data will be captured, compiled and collated using web.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Only for 3rd Sem Geomatics students

Time: 10.30-13.30, 11.30-13.30, 11.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Thursday, Friday

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Technology

1003 - Building Materials 1

Credits: 2

Type: Workshop

Instructor/s: Sankalpa, Ayaz Pathan

This workshop offers an in-depth exploration of building materials through a hands-on approach. Various aspects of building materials like material properties, production processes, skills and tools required for construction, environmental impact, economic considerations, and usage in buildings are explored. The emphasis is on learning by doing as opposed to mere theoretical knowledge of material properties.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None, Mandatory for FA UG

Time: 14.30-18.30

Days: Wednesday

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1004 - Fundamental of Structure 1

Credits: 2

Type: Lecture

Instructor/s: V.R.Shah

This lecture course emphasizes the development of a conceptual understanding of the behaviour of structure and its application for structural systems. Course content includes basic structural requirements: stability, serviceability, durability, economy, aesthetics; states of stress: tension, compression, bending, shear, and torsion; types of loads that act on a structure: dead load, live load, wind load, earthquake load; through the lens of a broad categorization of structural systems as mass, frame, and surface systems.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None, Mandatory for FA UG

Time: 08.30-10.30

Days: Wednesday

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1006 - Building Elements 2

Credits: 2

Type: Workshop

Instructor/s: Sankalpa, Mona Khakhar

Building elements are classified according to a sequence of construction, location (external/internal), role in load transfer (load bearing/non-load bearing; horizontal/vertical), and resource use. In this workshop, building elements are discussed primarily through the lens of joinery, which involves criteria for the selection of materials, joinery design for elements, and the process of their construction. Students explore various types of joinery and their role in making the element,

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Basic knowledge of building materials and their properties

Time: 14.30-18.30

Days: Monday

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1007 - Structures 3

Credits: 2

Type: Lecture

Instructor/s: Mona Khakhar

This lecture course develops students' understanding of basic requirements of stability, strength of material, the behaviour of basic structural elements, and their importance in a structural system. Contents include concepts of shear force, bending moment, inertia, and triangulation, as well as short and long columns, and their buckling and stability. Pure bending stresses, kern and its importance, and combined direct and bending stresses are taught through simple problems. Evaluation is based on tests and one final exam.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Minimum of 1 course in structures

Time: 08.30-10.30

Days: Tuesday

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1012 - Building Systems and Services

Credits: 3

Type: Lecture

Instructor/s: Mona Khakhar, Mukesh Shah

This lecture course covers aspects of building systems. The course deals with estimation of water needs, mode of supply, quality aspects of water, principles of wastewater recycling, modes of available conventional and non conventional treatment, end quality and reuse applications for buildings and sites. Students learn the principles of storm water drainage, as well as rainwater harvesting, treatment and end use. The electrical and hvac component consists of design and detailing of hvac systems in buildings and the design and detailing of electrical systems. The course culminates with an exercise based on application of the above concepts.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Understanding of concepts of building construction and building design and the need for the services. First year students are not eligible to take up the course.

Time: 14.30-17.30

Days: Thursday

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1045 - Structures IV

Credits: 2

Type: Lecture

Instructor/s: V.R.Shah

The course deals with design aspects of three structural materials – Reinforced concrete, steel and masonry. The course covers the design of singly reinforced section in reinforced concrete, design of tension members and flexural members in steel and concrete. It will also cover the design of masonry structure with seismic consideration for such structures. The course will be conducted with class room discussions and relevant assignments for the same. The course will attempt to develop the understanding of the design methods in different materials through simple examples of element design.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Minimum of 2 courses in structures

Time: 08.30-10.30

Days: Tuesday

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1561 - Building Systems and Energy Efficiency

Credits: 2

Type: Lecture

Instructor/s: Mona Khakkar, Urvi Desai

This lecture course prepares architects specialising in sustainable design to engage with the technical issues of energy consumption in buildings, lighting design (illumination and distribution systems), low energy heating and cooling systems (including the assessment methods to determine the ‘low energy’ tag), renewable energy systems and efficient control and maintenance of systems. Students can apply this knowledge toward making informed choices in their designs.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch (SA) Semester III, open to postgraduates and 4th and 5th Year UG students

Time: 14.30-16.30

Days: Friday

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1564 - Landscape Engineering

Credits: 2

Type: Lecture

Instructor/s: S.A.Kalgaonkar, Sandip Patil, Rishabh Jain, Vikas Giri

This lecture course deals with advanced engineering topics and techniques used in landscape by looking into landforms and grading, design of water features and appropriate irrigation systems and outdoor lighting design aspects as essential part of Landscape Design.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all PG students, Undergraduate students IV year onwards

Time: 09.30-10.30, 09.30-10.30

Days: Thursday, Friday

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1569 - Landscape Engineering III

Credits: 1

Type: Lecture

Instructor/s: Vikas Giri

This course provides students with basic knowledge for selection and design of electrical lighting in landscape areas.

Faculty: Architecture

Program: Postgraduate Program in Landscape Architecture

Prerequisites: Open to all PG students

Time: 09.30-10.30

Days: Thursday

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2059 - Construction Technology-1

Credits: 3

Type: Workshop

Instructor/s: Umesh Lavingia, Hamid Raj, Varun Shah

This course is an introduction to fundamental structural principles,materials and their properties. This workshop familiarizes students with different materials by allowing them to explore the physical properties of these materials on site. This course focuses on basic structural principles - forces , loads and type of structures and geometries-illustrated with examples from nature and the immediate built environment, and explored through model making.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have registered for or cleared Basic Design - I at the Faculty of Design are eligible for the course.

Time: 08.30-11.30 14.30-17.30

Days: Tuesday, Friday

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2061 - Construction Technology -III

Credits: 2

Type: Workshop

Instructor/s: Kireet Patel, Anuj Anjaria, Niyati Patel

This course focuses on construction, production and manufacturing of components, elements and systems used within the interiors of buildings. It addresses joinery, junctions and assembly of different types of structural elements through drawings and model making as well as experimentation with different materials in the workshop.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Structure & Material (CT) - I & II are eligible for this course, (or Basic Structure - I,II & BMMC - I, II from the old course)

Time: 09.30-10.30 14.30-17.30

Days: Thursday, Friday

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2522 - Craft: Processes, Collaboration and Cultural Perception

Credits: 4

Type: Studio

Instructor/s: Jay Thakkar, Kireet Patel

The first module introduces students to the larger overview of crafts in reference to India wherein the focus will be on study of the crafts related to the Interior Architecture with a cluster approach. The students will understand various processes associated with Craft and Craft Practices like human resource, skills, material, tools, techniques, systems of application and production, supply chain mechanisms and markets. These issues will be understood in reference to the traditional and current practices of craft by means of lectures, presentations, discussions, mapping, documentation and field work to various places in Gujarat. This module further looks at Craft-Design Collaboration. Through the learning from the first module, student will evolve an understanding of current needs and aspiration of craftspeople and define the role of design within the craft practices. They will engage with crafts through the process of design intervention. This will be done through hands-on exploration to acquire the material understanding and skills of making and to gain an intrinsic understanding of the craft-design process.

The second module emphasizes upon the tangibles and intangibles related to craft, focusing on the concept of crafts in Indian society. The cultural perceptions, ethos and values related to craft are studied with an understanding of cross-cultural influences, and the cultural and associational relevance of craft are discussed in detail. With craftspeople and the community at the core of inquiry, the course involves field visits to craft clusters and various communities. Also the cultural and associational relevance and importance of craft in the traditional built environment will be discussed in detail.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 10.30-13.30, 14.30-17.30

Days: Thursday, Thursday

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2523 - Building Energy Efficiency - I

Credits: 4

Type: Studio

Instructor/s: Sanyogita Manu, Munjal Bhatt

The first module of this course aims at developing a broad understanding of issues related to building energy efficiency and its significance in dealing with larger environmental challenges. It focuses on understanding the thermal, visual and aural environment via empirical and scientific approaches, treating the building as a complex and integrated system. It also covers theoretical aspects of building performance through lenses such as policy, technology, design and management. The second module guides students to explore energy performance in buildings with scientific rigour, to arrive at appropriate design decisions in real life problems. Students use hands-on exercises to learn about the principles of building physics and human comfort, employing as tools the various approaches available to a building designer.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 10.30-13.30, 14.30-17.30

Days: Friday, Friday

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2523 - Building Energy Efficiency - I

Credits: 4

Type: Studio

Instructor/s: Sanyogita Manu, Munjal Bhatt

The first module of this course aims at developing a broad understanding of issues related to building energy efficiency and its significance in dealing with larger environmental challenges. It focuses on understanding the thermal, visual and aural environment via empirical and scientific approaches, treating the building as a complex and integrated system. It also covers theoretical aspects of building performance through lenses such as policy, technology, design and management. The second module guides students to explore energy performance in buildings with scientific rigour, to arrive at appropriate design decisions in real life problems. Students use hands-on exercises to learn about the principles of building physics and human comfort, employing as tools the various approaches available to a building designer.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 10.30-13.30, 14.30-17.30

Days: Friday, Friday

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2523 - Building Energy Efficiency - I

Credits: 4

Type: Studio

Instructor/s: Sanyogita Manu, Munjal Bhatt

The first module of this course aims at developing a broad understanding of issues related to building energy efficiency and its significance in dealing with larger environmental challenges. It focuses on understanding the thermal, visual and aural environment via empirical and scientific approaches, treating the building as a complex and integrated system. It also covers theoretical aspects of building performance through lenses such as policy, technology, design and management. The second module guides students to explore energy performance in buildings with scientific rigour, to arrive at appropriate design decisions in real life problems. Students use hands-on exercises to learn about the principles of building physics and human comfort, employing as tools the various approaches available to a building designer.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 10.30-13.30, 14.30-17.30

Days: Friday, Friday

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5010 - Building Services (Plumbing)

Credits: 3

Type: Lecture

Instructor/s: Dipsha Shah

This course covers the organization and operation of plumbing, water supply, and sanitation services within a premises. Students learn the planning,

designing and construction aspects for connection up to the main lines. This subject covers topics such as plumbing hydraulics and pneumatics, types of plumbing fixtures based on requirements, plumbing materials, storage, appurtenances, water supply and drainage systems.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 16.30-17.30, 15.30-16.30, 08.30-09.30

Days: Monday, Thursday , Friday

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5020 - RCC Design Studio

Credits: 4

Type: Studio

Instructor/s: Anal Sheth, Parth Thaker

This course introduces the structural design aspects of RCC structures. The course shall cover design of typical RCC elements by limit state philosophy. The objective of the course is to equip students to work out structural design of an RCC frame structure and develop analytical and design skills required in structural engineering practice.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: Structural Analysis or equivalent

Time: 10.30-13.30, 10.30-13.30

Days: Wednesday, Thursday

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5029 - Port & Harbours

Credits: 3

Type: Lecture

Instructor/s: S. C. Naik

This lecture course introduces students to port and harbour engineering as a part of civil engineering. It also works to develop students' ability to analyze relevant topics pertaining to port & harbor engineering, which includes design, construction & maintenance.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 15.30-18.30

Days: Friday

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5030 - Lift, Fire Fighting & Elevators

Credits: 3

Type: Lecture

Instructor/s: Bipin Shah

This lecture course studies current design and construction practices for lifts, fire fighting, and elevator services. Application and installations in buildings are taken as case studies.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 15.30-18.30

Days: Friday

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5034 - Building Services (Electrical)

Credits: 2

Type: Lecture

Instructor/s: N. J. Naidu

This lecture course provides students with basic knowledge of electrical engineering and energy conservation. It introduces students to various electrical equipment and systems, so that they are aware of the basic technical requirements of the services. Through this knowledge they are able to carry out proper planning, designing, and coordination more efficiently.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 16.30-18.30

Days: Tuesday

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5037 - Foundation Engineering

Credits: 3

Type: Lecture

Instructor/s: Bhargav Tewar

This lecture course exposes students to advanced geotechnical aspects of foundation design for various structures. Analysis and design is studied in detail.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: Basic Course in Geotechnical Engineering

Time: 17.30-18.30, 16.30-18.30

Days: Tuesday, Wednesday

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5069 - Engineering Material I

Credits: 5

Type: Lecture Type 3

Instructor/s: Anal Sheth, Pavni Pandya

The course introduces the students to the common construction materials and makes them conversant with the types, properties, uses, availability, developments and market scenario of these materials. The materials addressed in this course are cementing materials, timber, walling materials and ceramics.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30, 09.30-10.30, 09.30-10.30, 14.30-16.30, 09.30-10.30

Days: Tuesday, Wednesday, Thursday, Thursday, Friday

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5071 - Geotechnical Engineering

Credits: 5

Type: Lecture Type 3

Instructor/s: Komal Parikh, Pavni Pandya

This course imparts knowledge of the fundamental & engineering properties of soil with their applications in civil engineering. This course enables students to understand soil behaviour through experimental work & makes them aware with geotechnical engineering problems & their solutions.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 08.30-10.30, 14.30-16.30, 14.30-15.30, 14.30-16.30

Days: Monday, Monday, Thursday, Friday

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5072 - Structural Analysis

Credits: 3

Type: Lecture Type 4

Instructor/s: Komal Parikh, Parth Thaker

The course equips students to analyze the effects of loads on common structural elements in form of stresses and deflection. The structural elements addressed in the courseare slabs, beams, columns and truss.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 08.30-10.30, 08.30-09.30, 09.30-10.30

Days: Tuesday, Wednesday, Friday

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5073 - Construction Technology I

Credits: 4

Type: Lecture Type 2

Instructor/s: Reshma Shah, Pavni Pandya, Jayesh Parekh

This course imparts knowledge of techniques used in the construction of various components of load bearing, frame and composite structures, along with practical experience. It covers topics as types of Shallow Foundations, Antitermite Treatments, Timbering of Trenches, Water proofing, Doors & Windows, Stairs, Lintels & Arches, Walls, Carpentry & Joinery etc. It also includes Building Construction drawings covering different components of structure to understand importance of drawing in the process of construction.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday

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5074 - Strength of Materials

Credits: 2

Type: Lecture

Instructor/s: Komal Parikh

This course explores the fundamental and applied concept of solid mechanics.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None , This course is mandatory for 2013 batch Technology students

Time: 14.30-16.30

Days: Tuesday

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5076 - Water & Waste Water Engineering

Credits: 3

Type: Lecture

Instructor/s: Dipsha Shah

This course provides students with an understanding of the basic principles of water and wastewater treatment, and their disposal. The course focuses on real time examples, through study on site visits, and through case study research. Students are also expected to design water and waste water treatment units.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 10.30-13.30

Days: Thursday

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5077 - Concrete Technology

Credits: 5

Type: Lecture Type 3

Instructor/s: Parth Thaker, Bhargav Tewar

Theory: This course engages students in an in-depth study of the properties and behavior of concrete and its ingredients, enabling them to specify and determine technically sound concrete in construction through a better knowledge of the basics. Major topics covered are high performance concrete, self compacting concrete, rheological properties of concrete, and the latest development in the area of concrete technology. Lab: This laboratory work exposes students to the various properties of concrete materials, which allows them to develop adequate understanding of fresh and hardened properties of concrete, and to select appropriate ingredients and concrete mixes. Students will use hands on experiments for the various tests required.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30, 10.30-13.30, 09.30 10.30, 10.30-13.30

Days: Monday, Wednesday, Friday, Friday

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5078 - Structural Analysis III

Credits: 3

Type: Lecture

Instructor/s: Parth Thaker

This course deals with the analysis of arches, introduction to cable structures, influence of moving load on beams and analysis of frames. It provides students with an understanding of indeterminate structures with static and moving load.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None. This course is mandatory for 2012 batch Technology students.

Time: 09.30-10.30, 09.30-10.30, 15.30-16.30

Days: Wednesday, Thursday, Friday

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5080 - Structural Failures, Repairs & Rehabilitation

Credits: 4

Type: Lecture Type 3

Instructor/s: Pavni Pandya, Mehul Vyas

In this course students are exposed to various causes due to which and the structures are distressed at an early age and in some cases also collapsed. This course equips student to diagnose the distressed/determinated structures along with various materials & systems used for repairing and rehabilitating such defective structures.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30, 10.30-13.30

Days: Wednesday, Friday

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5083 - Bridge Engineering

Credits: 4

Type: Lecture Type 4

Instructor/s: Mukesh Majeethia

This course apprises students of bridge engineering, enable them to design

simple bridge structures. Specific topics covered are an introduction to bridges, determination of design discharge, loads on bridges, design of culverts, design of deep foundations, construction methods and erection techniques, bearing and expansion joints.

Faculty: Technology

Program: Undergradua-te Program in Construction Technology

Prerequisites: None

Time: 08.30-10.30, 08.30-10.30, 08.30-09.30

Days: Monday, Wednesday, Friday

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5085 - Prestressed Concrete

Credits: 2

Type: Lecture

Instructor/s: Anal Sheth

The course introduces students to the material requirements, structural analysis, design and construction technologies for prestressed concrete structures. The course also showcases prestressed concrete projects and recent advances in the technology.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: UG-FT 3rd year onwards and PG-FT students only

Time: 16.30-18.30

Days: Wednesday

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5087 - Advance Survey & Mapping

Credits: 2

Type: Lecture

Instructor/s: Komal Parikh, Anjana Vyas

This elective course enable students to understand advance survey techniques and learn how to process and transfer data from survey instruments. Student also learn application of GIS and GPS for construction. Students also learn how to prepare plan from survey data using software.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: Basic knowledge of Surveying, and after completion of 1st year

Time: 16.30-18.30

Days: Thursday

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5088 - Tools, Equipment & Planning

Credits: 2

Type: Lecture

Instructor/s: Prakash Akalkotkar

To acquire the knowledge about the tools, equipment & Plants used in the construction industry for various activities and applying this knowledge in working with these Tools, Equipment & Plants.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 16.30-18.30

Days: Monday

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5502 - Advanced Construction Practices

Credits: 3

Type: Lecture

Instructor/s: Jyoti Trivedi, Ganesh Devkar

This course exposes students to current advance construction technology practices adopted in large construction projects nationally and internationally. It includes: general properties and behavior of special types of construction materials and factors affecting the production of the construction materials for construction projects, methods of improving the properties and performance of materials, enabling structures, precasting and prestressing of concrete and latest techniques of construction. Site visit is arranged for students to explore current on-going construction practices and specialized materials.

Faculty: Technology

Program: Postgraduate Program in Construction Engineering and Management

Prerequisites: Mandatory for MCEM 1st Semester students, Open to all PG students

Time: 14.30-17.30

Days: Tuesday

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5520 - Port Planning and Management (IED)

Credits: 2

Type: Lecture

Instructor/s: Mihir Das

This lecture course introduces the port as a sector of infrastructure. The course covers the elements of port structures, their conceptualization, planning, and engineering implementation. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-10.30

Days: Monday

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5584 - Introduction to Urban Infrastructure Systems (IED)

Credits: 3

Type: Lecture

Instructor/s: Tushar Bose, Shailaja Pandit

This lecture course provides students with an understanding of the basics of infrastructure sectors, and is a foundation course for gaining insights into the urban infrastructure sector. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-09.30, 08.30-10.30

Days: Tuesday, Wednesday

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5588 - Urban Information Systems (IED)

Credits: 2

Type: Lecture

Instructor/s: Charanjeet Singh

The course provides insights as to how emerging information and communication technologies are impacting urban development and how such decision supporting tools can be used to understand complex relationships between land use, transportation, environment etc. Much of the coursework involves is focused towards integrating geographic information systems (GIS), multimedia technologies and the design and prototyping of urban planning tools.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Only for FT PG students

Time: 08.30-10.30

Days: Thursday

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5590 - Contracts and Procurement (IED)

Credits: 3

Type: Lecture

Instructor/s: Reshma Shah

This lecture course exposes the students to the legal aspects of construction projects, construction contracts, and issues related to contract administration. The course also covers different PPP model contracts and international practices. Evaluation is based on class participation, assignments and written examination.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 14.30-16.30

Days: Monday

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5591 - Project Management (IED)

Credits: 3

Type: Lecture

Instructor/s: Shridip Shah, Ajit Desai

The purpose of this course is to introduce students to generic principles of project management in the first module. The second module will cover introduction to project management software used in the industry.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to all PG students

Time: 08.30-09.30, 08.30-09.30, 14.30-16.30

Days: Wednesday, Friday, Friday

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5595 - Environment Modeling (IED)

Credits: 2

Type: Lecture

Instructor/s: Tushar Bose, Saswat Bandyopadhyay

This lecture course is divided into two sections. The first section deals with modelling of air quality for point, line and area sources. The second part deals with modeling of water quality, estimation of floods, vulnerability assessment of ground water etc.

Faculty: Technology

Program: Postgraduate Program in Engineering Design

Prerequisites: Open to PG students who have the knowledge of basic mathematics and interest in environment sciences

Time: 08.30-10.30

Days: Friday

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5596 - Remote Sensing: Theories & Practice

Credits: 3

Type: Lecture

Instructor/s: S.S.Palsule, Bindi Dave

Introduction to basic concept of the properties of electromagnetic radiation for surface information measurement, the physical process involved for obtaining spectral signatures based on these signatures targets are identified, various stages of remote sensing from data collection to end utilization are studied. It also gives historic perspective and the current global status of remote sensing system. This subject introduces the concept of optical Remote Sensors as instruments which measures radiance from suitable platform. Radiance is the property for surface object identification as function of spatial, spectral and temporal characteristics. The detailed activities of space and ground segment system of the Indian Remote Sensing program / Global program are also studied.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: None

Time: 09.30-11.30, 09.30-11.30

Days: Monday, Friday

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5598 - Spatial Database

Credits: 3

Type: Lecture

Instructor/s: Jitendra Dadhania, Darshana Pawal

The goals of this course are to enable students to develop a good understanding of the principles and techniques of relational database design as they apply to spatial databases; apply these principles and techniques in designing and building spatial databases; and use spatial databases to perform common types of queries and spatial analysis.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Open to all PG students

Time: 08.30-10.30, 09.30-10.30

Days: Tuesday, Wednesday

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5609 - LiDAR Technology and Applications

Credits: 2

Type: Lecture

Instructor/s: A.R.Dasgupta, Bindi Dave

The course will cover principles of airborne and terrestrial laser scanning, processing of 3D point clouds, visualization of point clouds, data calibration, registration, error estimation, extraction of DTM and DEM, detection of buildings and extraction of 3D building models, engineering applications like 3D CAD, applications in change detection, deformation analysis, land erosion, landslides, power line and canal monitoring, heritage structures and archaeological studies.

Faculty: Technology

Program: Postgraduate Program in Geomatics

Prerequisites: Open to PG students with Remote Sensing background

Time: 14.30-15.30

Days: Tuesday, Thursday

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Transport

4040 - Transportation Planning

Credits: 2

Type: Lecture

Instructor/s: Anuj Malhotra

This course presents a comprehensive overview of traffic and transportation planning and design. The emphasis is to provide solutions for urban transportation problems and to facilitate management of transportation systems.

Based on analysis, students are expected to gain knowledge of principles of road hierarchy, geometric design and urban street design and designing for special needs such as busways, cyclists and pedestrians.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Only for B.Plan Students

Time: 08.30-10.30

Days: Friday

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4556 - Transport Economics and Appraisal

Credits: 2

Type: Lecture

Instructor/s: Shivanand Swamy

This lecture course extends economic concepts and methodologies to the transport sector. It helps students to appreciate true costs of transport and to measure them. The course deals with transport demand and supply concepts, costing and pricing of transport services, economic appraisal principles and transport regulation.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban Transport Planning and Management specialization students, Open to PG Planning. Economics in 1st Sem

Time: 16.30-18.30

Days: Tuesday

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4557 - Transport Finance/ Financing Urban Transport

Credits: 2

Type: Lecture

Instructor/s: H.M. Shivanand Swamy, Visiting Faculty

This course focuses on evolving a framework to assess the adequacy of current level of urban transport investments, estimate gaps, identify and evaluate alternative sources of financing in terms of their applicability, adequacy and sustainability. In addition to lectures on theory/concepts, and exercises on financing requirements and option analysis, a series of city/project case study presentations and discussions will be organized.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban Transport Planning and Management specialization students, Open to PG Planning, Public and Project Finance in 2nd Sem

Time: 14.30-16.30

Days: Thursday

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4566 - Modelling Land Use and Transport

Credits: 2

Type: Lecture

Instructor/s: Talat Munshi

This course will give basic understanding to the process of land use and transport modelling. Models that can be used to model land use will be discussed, including the inputs and outputs of these models. Land use and transport models like Gavin-Lowry model will also be discussed. Both sections of the course will culminate in a hands-on exercise.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG students

Time: 16.30-18.30

Days: Thursday

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4573 - Transport Modelling II

Credits: 3

Type: Lecture

Instructor/s: Shalini Sinha

The objective of this module is to provide students with a hands-on experience of working on strategic model EMME. Using EMME students would outline alternative growth options for a city, develop future year networks and demand matrices. The alternative scenarios will then be evaluated and scenario analysis and interpretation would be carried out.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: PG Planning, Transport Planning & Modelling in 2nd Sem

Time: 08.30-10.30

Days: Thursday

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4574 - Transport Infrastructure Planning and Design II

Credits: 2

Type: Lecture

Instructor/s: Abhijit Lokre

This course presents a comprehensive overview of transit infrastructure planning and design. It explores transit infrastructure designs for rail based mass transit systems. It looks into elements of access to transit facilities, concepts of integration, and design for multimodal transit facilities apart from other aspects of transit infrastructure including branding and communications strategy, universal access, wayfinding, station operation and maintenance.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: PG Planning. Transport Infrastructure Planning and Design in 2nd Sem

Time: 16.30-18.30

Days: Wednesday

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Urban and Regional Planning

1551 - Urban Planning and Legislation

Credits: 3

Type: Lecture

Instructor/s: Rutool Sharma

Urban Planning and design is of significant importance for social, economic and environmental aspects of a city and its hinterland. Preparation of urban plan is a process, which is steered by several laws and legislations. This course builds an understanding of legislation as decision support tool in urban planning.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M.Arch (UD) Semester III students, open to postgraduates and 4th and 5th Year UG students

Time: 14.30-16.30

Days: Monday

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4045 - Regional Planning Theory

Credits: 2

Type: Lecture

Instructor/s: Anil Roy

This course aims to bring in conceptual and practical understanding of "Region" on various scales such Macro, Meso and Micro regions. The history of regional planning as special thematic area of planning domain shall be discussed chronologically for the benefit of urban and regional planning students and professionals. The various tools and techniques that have been developed in the field shall be core pedagogical learning during the entire semester. The challenges and opportunities faced by the regional planning practices through case studies are core area of learning.

Faculty: Planning

Program: Undergraduate Program in Planning

Prerequisites: Open to all

Time: 08.30-10.30

Days: Friday

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4502 - Economics

Credits: 2

Type: Lecture

Instructor/s: R. Parthasarathy, Anurima Mukherjee Basu, Vishal Dubey

This lecture course provides students with basic understanding of the subject matter of economics and its relevance in 'planning', introducing basic concepts and theories drawn from economics as commonly applied in the field of 'planning'. The course introduces students to microeconomic concepts, certain macroeconomic issues, and development policies and issues of India. It also familiarizes them with current issues in development and economic planning in India and the changing paradigms thereof.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 08.30-10.30

Days: Wednesday

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4504 - G.I.S. for Planners

Credits: 2

Type: Lecture

Instructor/s: Anjana Vyas

Geographical Information System (GIS) and Remote Sensing are an important skill for planners. This course presents an overview of GIS and the related topics of remote sensing and digital image processing, explaining issues of scale, data quality, and GPS. Students have hands-on practice with available software for image processing and GIS, and are expected to learn the basic concepts underlying this technology, and their application in decision making.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 14.30-16.30

Days: Thursday

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4538 - Planning Methods

Credits: 2

Type: Lecture

Instructor/s: C.N. Ray, Talat Munshi

This lecture course explores the application of quantitative and qualitative research methods and techniques to the analysis of planning problems. The course is structured in two basic sections. The first section deals with statistical methods and their application in data collection and analysis, and the second deals with qualitative methods and their application in data collection and analysis. It is envisaged that these methods will be used by the students in their practical labs and thesis. The course also highlights the various types of data available for to planners and its sources in India.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 08.30-10.30

Days: Tuesday

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4539 - History of Planning

Credits: 2

Type: Lecture

Instructor/s: Shrawan Kumar Acharya

The concept and practice of `modern' urban planning has undergone substantial changes over the years. It is necessary that our actions from today forward are rooted in an in-depth understanding of planning history's changing trends. This course develops a theoretical basis for planning interventions based on changing development paradigms. It covers the gamut of planning interventions in the urban and regional space, positing that development planning has evolved from purely `statist' and `economistic' approach to more participation and people-centred approaches, and planning strategies based on these theoretical understandings will be much more sound and inclusive in addressing today's problems. The course is organized around certain thematic issues. The course is not a design history and not about physical planning it is more about the history of ideas specific to a particular context determined by the environment, economy, society, polity, culture, technology and institutions. The themes are contested and therefore needs to be taught in a discursive mode. The themes are connected and at times may over lap. Unfortunately, most of the ideas seem to have emerged in the West, however, their adaptation and relevance for developing countries and especially India will be discussed.The emphasis of the course is on students' comprehension of paradigms/approaches in planning and ability to articulate a theory behind a policy, program or plan.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 08.30-10.30

Days: Thursday

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4540 - Understanding of Indian Society

Credits: 2

Type: Lecture

Instructor/s: C.N. Ray

This course covers basic understanding of Indian social and cultural life in the overall context of planning and development. The conceptual part of the course will be delivered mainly through class lectures. For some detailed analysis and also for an exposure to the various social and cultural issues open discussions will be held along with the formal lectures. The entire course is sub-divided into twelve main issues and details of the topic along with relevant references will be given at the beginning of the session. The main objective of this course is to help students to understand structural and cultural background of various social issues and problems in the contemporary Indian society, particularly the Urban India.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 14.30-16.30

Days: Wednesday

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4541 - Regional Planning and Development

Credits: 2

Type: Lecture

Instructor/s: Shrawan Kumar Acharya, Vishal Dubey

This lecture course provides students with an in-depth understanding of the issues of regional development, spatial disparity, and the need for balanced regional development in the context of globalization and rapid economic transformations in the country. The spatio-economic basis of regional planning is supplemented by various

theoretical concepts and analytical tools borrowed from social and regional science.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban and Regional Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Monday

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4542 - Urban Politics and Governance

Credits: 2

Type: Lecture

Instructor/s: Shrawan Kumar Acharya, Anurima Mukherjee Basu

The principal objective of the course is to engage with the concepts and debates of governance, citizenship and politics in urban planning. It will contextualize the discussion on governance in the wider debates centered around development and human rights and the roles of the state, civil society and market in urban development in India. The course would discuss aspects of good governance, constitutional framework for local governance, neoliberal development and changing governance arrangements in cities and finally discuss the contemporary conflicts and contestation arising in Indian cities. The premise of the course rests on the fact that “planning is essentially a political process” and the “problem fixer” attitude and approach of the ‘planner” is flawed without a proper understanding of the political economy of urban development. Besides lectures, topical debates, discussion and position paper will be encouraged to generate critical thinking among the students.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all P G students

Time: 08.30-10.30

Days: Tuesday

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4543 - Rural Development

Credits: 2

Type: Lecture

Instructor/s: C.N.Ray

The students of this course are expected to be able to understand the contemporary rural dynamics within the context of Urban and Regional planning and also help them to work as a planner successfully.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban and Regional Planning specialization students, Open to all PG students

Time: 14.30-16.30

Days: Monday

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4544 - Urban Land Supply, Policies And Valuation

Credits: 2

Type: Lecture

Instructor/s: Rutool Sharma

The course aims to deepen students' ability as well as the approach to identify and critically analyze the driving forces, key stakeholders, regulatory framework and mechanisms associated within planning processes that play a critical role in land development. The students shall be exposed to relationships between land development process, policies and governance mechanisms, which in turn have severe impacts on land holding, markets and pricing. Specific topics that shall be part of this course include understanding fundamental steps involved in land development, legal dimensions to deal with issues emerging due to efforts to control land development activities and regulatory as well as market-based approaches for managing land.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Urban and Regional Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Wednesday

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4545 - Environmental and Social Impact Assessment

Credits: 2

Type: Lecture

Instructor/s: Ashwani Kumar

The prime aim of this lecture course is to create a theoretical base for ESIA, existing regulations, overview and applications of methods and techniques for environmental system analysis (e.g., water and air systems). For this,

students are introduced to various tools. Environmental Impact Assessment (EIA) is a tool to evaluate the effects of a proposed activity, project and programme on the environment. ESIA is a multi-disciplinary concept which combines the principles of science, technology, management, sociology, health and economics to identify and evaluate the effects of a project or activity on both the natural environment and its socio-economic aspects.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Environmental Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Thursday

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4548 - Environment & Quality of Life

Credits: 2

Type: Lecture

Instructor/s: Neeru Bansal

Quality of life is one of the most debated concerns across the globe. There are world-wide deliberations over the components and measurement of quality of life. Indian Constitution guarantees right to life and pollution-free environment as fundamental right. The course will focus on the various aspects of environment and quality of life and will discuss the instruments available to ensure it.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Environmental Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Tuesday

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4549 - Climate Change and Cities

Credits: 2

Type: Lecture

Instructor/s: Minal Pathak

Climate change is a significant challenge for cities as these are increasingly faced with challenges of reducing GHG emissions, and managing direct and indirect impacts of climate change ranging from sea level rise, flooding, water stress, heat/cold waves, urban heat island impacts and increased pressure on urban systems. Solutions to climate change are embedded within urban planning and development decisions of land use, resource management and infrastructure planning. The course will develop an understanding of this global challenge and using case studies of major cities, look at how new and existing cities can integrate climate change concerns.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Environmental Planning specialization students, Open to all PG students

Time: 14.30-16.30

Days: Friday

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4550 - Housing Programme and Project Development & Evaluation

Credits: 2

Type: Lecture

Instructor/s: Sejal Patel

Affordable housing projects and programmes often get formulated and implemented in such a manner that intended beneficiaries are not reached, their standard of living is not improved or long term sustainability is not ensured. This (COURSE TYPE?) course leads students to understand the formulation of the life cycle of a housing program and project, which may allow for better implementation and delivery.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Housing specialization students, Open to all PG students

Time: 14.30-16.30

Days: Tuesday

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4551 - Urban Development and Real Estate

Credits: 2

Type: Lecture

Instructor/s: Madhu Bharti

The course focuses understanding the factors responsible for spatial and demographic growth of the cities, understanding land economic theories and the pattern of transformations with reference to cities in India. Understanding the relationship between the economic use of land and

the use of land with reference to planning regulations. The objective of the course is to develop an understanding of how due to local, national and international socio-political-economic factors, cities have a specific character. Seminar based course. Students would be encouraged to take the lead.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Housing specialization students, Open to all PG students

Time: 14.30-16.30

Days: Wednesday

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4552 - Water and Sanitation

Credits: 2

Type: Lecture

Instructor/s: Mona Iyer

This course aims to provide a basic understanding of water, wastewater, sanitation and solid waste management services. The objectives of the course include understanding infrastructure DPRs, overview of standards, guidelines and policies, assessment of service delivery gaps, sensitization on operation and maintenance issues, cost and institutional framework.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Infrastructure Planning specialization students, Open to all PG students

Time: 14.30-16.30

Days: Monday

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4553 - Port Planning

Credits: 2

Type: Lecture

Instructor/s: Anil Roy, Mihir Das, Saswat Bandyopadhyay

This course examines the port sector and its role in regional development, looking at both connectivity to the hinterland and development concepts. The course provides students with a structured understanding of aspects of port planning, port engineering/design, port operations, reforms and the socio environment perspective of port development.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Mandatory for Infrastructure Planning specialization students, Open to all PG students

Time: 08.30-10.30

Days: Wednesday

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4565 - History and Theory of Urbanization

Credits: 2

Type: Lecture

Instructor/s: Anil Roy

This course aims to bring in conceptual understanding of urban, urban structure, morphology and forms along with an understanding of the concept called new urbanism. The process of urbanization with reference to the third world countries is the core area of discussion. The history and theories of urban as well as regional planning will form larger discussion during the entire semester.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG students

Time: 16.30-18.30

Days: Thursday

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4566 - Modeling Land Use and Transport

Credits: 2

Type: Lecture

Instructor/s: Talat Munshi

This course will give basic understanding to the process of land use and transport modelling. Models that can be used to model land use will be discussed, including the inputs and outputs of these models. Land use and transport models like Gavin-Lowry model will also be discussed. Both sections of the course will culminate in a hands-on exercise.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG students

Time: 16.30-18.30

Days: Thursday

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4567 - Built Form & Regulations

Credits: 2

Type: Lecture

Instructor/s: Brijesh Bhatha, Jignesh Mehta

Building regulations play key role in molding the built form and urban character of a city. Well-crafted regulations are crucial to achieve the envisioned urban form. This elective intends to focus on the relation between urban form and regulations through relevant historic and contemporary examples, culminating in hands-on exercise on developing sample building regulations.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all students

Time: 14.30-16.30

Days: Wednesday

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4569 - Urban Environmental Risk Assessment and Management

Credits: 2

Type: Lecture

Instructor/s: Ajay Katuri

This course aims to make the target group aware of various tools and techniques in urban environmental Risk Management for an array of hazards. This course assumes working knowledge of GIS/RS. At the end of the course, you will be expected to develop a vocabulary of disaster management and knowledge of applying tools and techniques for various risk management exercises.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG students

Time: 16.30-18.30

Days: Monday

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4570 - Smart Cities

Credits: 2

Type: Lecture

Instructor/s: Saswat Bandyopadhyay, Sejal Patel

Cities, worldwide, have been reinventing themselves to increase their performance and efficiencies in Infrastructure service delivery. This elective course is positioned in this context and would attempt to expose the course participants with the global and regional discourses and practices of Smart Urbanization and Infrastructure, Place making approaches, Infrastructure diversities and their optimum mixing. The course will be delivered through a mix of Class room lectures, Case Study presentations, Group Discussions and short film reviews.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all PG students

Time: 16.30-18.30

Days: Friday

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4572 - Development Innovation II

Credits: 2

Type: Lecture

Instructor/s: Dinesh Mehta, Meera Mehta

This seminar course provides a platform for exchange on innovative development thoughts and experiences from around the world. Three paradigms are covered: a) Inclusive development that combines economic development with wider 'Human Development', b) Inclusive markets and finance to reach the 'unreached' and widening livelihood opportunities, and c) Inclusive cities with access to public spaces and basic services. Students will work individually on a topic from any one of the three themes through the semester, prepare a research paper, participate in discussions on topics by all the students as well as take part in discussions based on specific readings.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Students who had cleared the subject Development Innovation I Elective

Time: 16.30-18.30

Days: Tuesday

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4573 - Transport Modeling II

Credits: 3

Type: Lecture

Instructor/s: Shalini Sinha

The objective of this module is to provide students with a hands-on experience of working on strategic model EMME. Using EMME students would outline alternative growth options for a city, develop future year networks

and demand matrices. The alternative scenarios will then be evaluated and scenario analysis and interpretation would be carried out.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: PG Planning, Transport Planning & Modelling in 2nd Sem

Time: 08.30-10.30

Days: Thursday

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4574 - Transport Infrastructure Planning and Design II

Credits: 2

Type: Lecture

Instructor/s: Abhijit Lokre

This course presents a comprehensive overview of transit infrastructure planning and design. It explores transit infrastructure designs for rail based mass transit systems. It looks into elements of access to transit facilities, concepts of integration, and design for multimodal transit facilities apart from other aspects of transit infrastructure including branding and communications strategy, universal access, wayfinding, station operation and maintenance.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: PG Planning, Transport Infrastructure Planning and Design in 2nd Sem

Time: 16.30-18.30

Days: Wednesday

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4575 - Public Engagement for Urban Professionals

Credits: 2

Type: Lecture

Instructor/s: Vanishree Herlekar

Informing, inspiring, and engaging the public, to help them become active stakeholders in the decision making process is central to the idea of inclusive cities. The seminar course will expose students to theoretical concepts of participatory planning, tools and techniques for effectively engaging public sector stakeholders and citizens, and also provide a hands-on opportunity for students to facilitate an engagement process.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all 4th Year and above UG students and PG students

Time: 16.30-18.30

Days: Thursday

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4576 - Governing Cities: Alternative Epistemologies of Power and Politics

Credits: 2

Type: Lecture

Instructor/s: Chandrika Parmar

This course is an attempt to explore various forms of governance in the city through the concept of Governmentality. Governmentality (Govern + mentality) is a term used by French scholar Michel Foucault to understand and unravel tacit forms of control. Using the concept of Governmentality, this course will attempt to look at the not so obvious systems of power and control in the city.

Faculty: Planning

Program: Postgraduate Program in Planning

Prerequisites: Open to all students

Time: 08.30-10.30

Days: Thursday

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Visual Communication and Performing Arts

1027 - Ceramics

Credits: 2

Type: Workshop

Instructor/s: Snehal Kashikar, Dilip Panchal

The intention of this course is to develop students' sensibility toward form making through tactile and haptic sensitivity, by exploring of clay as a material. Basic methods of working with clay are taught, followed by experiments in firing and glazing.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 14.30-18.30

Days: Friday

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1049 - Moving and Still Imaging

Credits: 2

Type: Workshop

Instructor/s: Ujjval Panchal, Urvi Sheth

Focus of this course is to introduce moving and still imagery as tools to visualize and represent variety of spatial conditions. Students will be introduced to various ways of bringing together still images such as photographs, graphics, text, etc. and moving imagery like video footage, time-lapse photography, etc. along with sound-audio to create spatial narratives which are difficult to represent otherwise through conventional visual mediums.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Aptitude to computer software.

Time: 14.30-16.30, 16.30-18.30

Days: Tuesday, Friday

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1056 - How to Look at Art

Credits: 2

Type: Lecture

Instructor/s: Esther David

This elective on Art Appreciation is designed like a journey into the realm of art. It is often assumed that art appreciation needs conditioning in the arts, but any student can learn to enjoy art, by understanding it and reacting to various art forms. This elective will help students to develop a larger interest in the visual arts, based on their own preferences, aptitude and experiences. The elective on Art Appreciation is based on discovering various art forms. Today, art has broken all barriers and most art forms are woven into each other. So, the course will begin with a general overview about history of art, while exposing students to visuals of paintings, sculptures, drawings, related art forms, importance of composition, colour, content, ideology, art-terminology and the creative process. Thereafter, the course will enable each student to develop their own aesthetic sensibilities towards art. The evaluation method is based on interaction of students in class, discussions, projects, writing skills based on art exhibitions or visuals shown in class and a final presentation of an artist or art form of the students' choice.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 14.30-16.30

Days: Thursday

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1071 - Architectural Photography

Credits: 2

Type: Workshop

Instructor/s: Parth Shah

The course aims to better the 'image making' and 'photo-taking' skills of the student. Being a part of the curriculum in a design school, the course will try to improve the graphic and pictorial sense in a student by the medium of photography. The course will be conducted by way of Digital Photographic methods only. Thus, the student is expected to know basic image processing methods on the computer. The course includes tuition in understanding all aspect of photography from taking pictures to digital storage and printing. Assignments will be given to each student in order to develop the individual proclivity towards photo making. It is a belief that by experimenting one understands and by practicing one masters. Photography being very technical in its operational sense, that it is extremely sensorial in its visual sense is what will be explored.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 2nd year UG onwards with a DSLR camera

Time: 14.30-18.30

Days: Wednesday

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1074 - Representations of Space

Credits: 2

Type: Lecture

Instructor/s: Seema Khanwalkar

The elective course 'Representation of Space' examines and presents the ways in which spatial relations are seen as fundamental to human beings connected to their locations and those that affect their destinies. This is an exploration of the coming together of physical space, the modes of representation of space (like in literature). The course will invoke examples from performance cultures, literature, etc to create an engaging exploration of space for students interested in performance, architecture, theater, semiotics among other. The course aims to give an experience of space as movement, gradually, akin to literary works and how for example, Baudelaire shaped the idea of a modern city, or George Orwell made us see the dark side of totalitarian models for the living environment.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 08.30-10.30

Days: Friday

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1546 - Documenting and Communicating Architecture

Credits: 2

Type: Workshop

Instructor/s: Gauri Bharat

This course explores documentation methods and their potentials for different kinds of architectural representation. This is not a drawing course but a critical reflection on ways of drawing as ways of knowing and conceptualising built environments. Students will explore sketching in different media, analysis through architectural drawings, and documenting and representing of non-physical aspects such as space use. It is intended that students will revisit their basic documentation and representation skills to explore their potentials as tools for thinking.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch Semester I students

Time: 09.30-13.30

Days: Thursday

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1555 - New Media

Credits: 3

Type: Seminar

Instructor/s: Henry Skupniewicz

This lecture course works to generate discussions on the role of new media and information technology in the field of architecture. Experts in the practice are invited to talk about the role of new tools in the generation of new expressions, explorations in the virtual world, and how these changes result in changing complexities of form and building method in the context of new institutions with new functions.

Faculty: Architecture

Program: Post Graduate Program in Architecture

Prerequisites: Mandatory for M. Arch (TD) Semester III, open to all postgraduates and 4th and 5th Year students of UG programs.

Time: 14.30-17.30

Days: Monday

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2002 - VR-Sketching

Credits: 3

Type: Workshop

Instructor/s: Rajesh Sagara

This workshop explores the use of free hand sketching and drawing as tools of visual representation. It uses geometrical analysis of objects as a means to understand shapes and proportions, as well as aspects like opacity, transparency, shades and shadows, and light and depth. Students develop skills in observation and recording through drawing with different media like pencil, pen, crayons and water colours.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students registered for Semester-1 at Faculty of Design are eligible for the course

Time: 14.30-17.30 10.30-13.30

Days: Monday, Thursday

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2023 - Clay & Ceramics

Credits: 2

Type: Workshop

Instructor/s: Neelma Nagpal, Snehal Kashikar

The course will allow students to explore the properties of clay by working with it in the workshop. This course will also expose the student to work on the wheel.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: None

Time: 14.30-18.30

Days: Wednesday

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5028 - Free Hand Sketch

Credits: 2

Type: Workshop

Instructor/s: Soha Trivedi

This Workshop is based on the Innovation and Exploration of different techniques of Free hand sketching and drawing, by working with different media like pencil, charcoal, water colours. Here students can draw and sketch their surroundings as a way to enhance their interaction with it, which creates opportunities for creative thinking and develop their visualization and observation skills.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 16.30-18.30, 16.30-18.30

Days: Monday, Wednesday

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Workshop

1002 - Visualization and Representation 1

Credits: 5

Type: Workshop

Instructor/s: Dilip Panchal, Arundati Saikia, Kinny Soni,

This workshop emphasizes drawing as a medium of communication for basic vocabulary in architecture. Students learn to represent different objects through 2d and 3d geometry thereby developing visualization skills. Contents include orthographic projections, surface development, auxiliary projections, axonometric and isometric drawings.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Admission in FA UG program, mandatory for FA UG

Time: 14.30-18.30, 08.30-10.30, 14.30-18.30

Days: Monday, Tuesday, Tuesday

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1027 - Ceramics

Credits: 2

Type: Workshop

Instructor/s: Snehal Kashikar, Dilip Panchal

The intention of this course is to develop students' sensibility toward form making through tactile and haptic sensitivity, by exploring of clay as a material. Basic methods of working with clay are taught, followed by experiments in firing and glazing.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: None

Time: 14.30-18.30

Days: Friday

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1039 - Modeling and Simulation

Credits: 2

Type: Workshop

Instructor/s: Ujjval Panchal, Urvi Sheth

Various Methods of visualization through simulation are the core of this workshop. Special emphasis is laid on the use of digital techniques as a design tool, equipping students to use multiple techniques in design thinking. Experimentation, innovation and exploration are encouraged. this course will equip a student in multiple techniques in design thinking

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 2nd year and above UG students and PG students

Time: 16.30-18.30, 14.30-16.30

Days: Tuesday, Friday

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1049 - Moving and Still Imaging

Credits: 2

Type: Workshop

Instructor/s: Ujjval Panchal, Urvi Sheth

Focus of this course is to introduce moving and still imagery as tools to visualize and represent variety of spatial conditions. Students will be introduced to various ways of bringing together still images such as photographs, graphics, text, etc. and moving imagery like video footage, time-lapse photography, etc. along with sound-audio to create spatial narratives which are difficult to represent otherwise through conventional visual mediums.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: Aptitude to computer software.

Time: 14.30-16.30, 16.30-18.30

Days: Tuesday, Friday

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1071 - Architectural Photography

Credits: 2

Type: Workshop

Instructor/s: Parth Shah

The course aims to better the 'image making' and 'photo-taking' skills of the student. Being a part of the curriculum in a design school, the course will try to improve the graphic and pictorial sense

in a student by the medium of photography. The course will be conducted by way of Digital Photographic methods only. Thus, the student is expected to know basic image processing methods on the computer. The course includes tuition in understanding all aspect of photography from taking pictures to digital storage and printing. Assignments will be given to each student in order to develop the individual proclivity towards photo making. It is a belief that by experimenting one understands and by practicing one masters. Photography being very technical in its operational sense, that it is extremely sensorial in its visual sense is what will be explored.

Faculty: Architecture

Program: Undergraduate Program in Architecture

Prerequisites: 2nd year UG onwards with a DSLR camera

Time: 14.30-18.30

Days: Wednesday

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2000 - Basic Design - I

Credits: 6

Type: Studio

Instructor/s: Krishna Shastri, Jay Thakkar, Kamalika Bose, Rajesh Sagara

This studio is an introduction to design principles and ordering systems. Exercises explore the translation of verbal (adjectives and verbs) to visual through compositions both in two- and three- dimensions. Studio work also focuses on understanding physical dimensions through exercises in ergonomics and anthropometric studies. These aspects will be learned through experience. The studio will also address components of writing and communication to allow and facilitate reflective directions in design.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students registered for Semester -1 at Faculty of Design

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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2001 - VR-Technical Representation Drawings

Credits: 3

Type: Workshop

Instructor/s: Kireet Patel

This workshop focuses on 2 and 3 Dimensional geometry and its representation through drawing. It familiarizes students with drawing materials and equipment, and makes them aware of the significance of precision and accuracy in technical drawings. The exercises in this course involve the understanding and representation of principles of geometry, orthographic projections of points, lines, planes and solids, sections of simple and complex solids and the development of the surfaces of solids.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have registered for or cleared Basic Design - I at the Faculty of Design are eligible for the course.

Time: 14.30-17.30, 14.30-17.30

Days: Tuesday, Thursday

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2002 - VR-Sketching

Credits: 3

Type: Workshop

Instructor/s: Rajesh Sagara

This workshop explores the use of free hand sketching and drawing as tools of visual representation. It uses geometrical analysis of objects as a means to understand shapes and proportions, as well as aspects like opacity, transparency, shades and shadows, and light and depth. Students develop skills in observation and recording through drawing with different media like pencil, pen, crayons and water colours.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students registered for Semester-1 at Faculty of Design are eligible for the course

Time: 14.30-17.30 10.30-13.30

Days: Monday, Thursday

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2007 - Studio - I

Credits: 6

Type: Studio

Instructor/s: Shrutie Tamboli, Sakthivel, Henri Skupniewicz , Aditi Vashisht

This studio facilitates the design of spatial interventions in response to physical and visual attributes of a given site context. The emphasis of exercises is upon the application of the structural understanding, experimentation with different materials, through models and development of prototypes.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Basic Design - II from Faculty of Design along with TRD - I, and S&M, Structure & Material (Construction Technology) I & II (or TRD - I, II, Basic Structure - I, II & BMMC - I,II from the old curriculum)

Time: 10.30-13.30, 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday, Friday

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2008 - Furniture Design - I

Credits: 4

Type: Design Workshop

Instructor/s: Samir Bhatt, Jay Thakkar, Shailesh Manke

This workshop focuses on understanding furniture design from the perspective of its evolution in history, the development of design styles, as well as the pragmatic aspects of ergonomics and comfort. Exercises involve appreciating classic pieces of furniture, understanding ergonomics through experience, and applying that understanding to the design of a rudimentary piece of furniture. (BLOCK COURSE)

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Basic Design - II from Faculty of Design and Structure & Material (Construction Technology) I & II (or Basic Structure - I, II & BMMC - I,II from the old curriculum) are eligible for the course.

Time: 14.30-17.30, 14.30-17.30, 14.30-17.30, 10.30-13.30

Days: Monday, Tuesday, Wednesday, Thursday

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2014 - Furniture Design - III

Credits: 4

Type: Design Workshop

Instructor/s: Shrutie Tamboli, Poonam Jolly, Komal Dighe

This workshop addresses the development of design language, and focuses on furniture design that evolved as a response to the Industrial Revolution and Modernism. Exercises involve designing a set of furniture elements.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Furniture Design - I will be eligible for the course

Time: 14.30-17.30, 10.30-13.30

Days: Monday, Thursday

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2023 - Clay & Ceramics

Credits: 2

Type: Workshop

Instructor/s: Neelma Nagpal, Snehal Kashikar

The course will allow students to explore the properties of clay by working with it in the workshop. This course will also expose the student to work on the wheel.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: None

Time: 14.30-18.30

Days: Wednesday

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2025 - Digital Technology - I

Credits: 3

Type: Workshop

Instructor/s: Amal Shah

This workshop explores the use of the digital medium as a tool of both design and its representation. It introduces the students to the basics of three dimensional form exploration with the help of Sketch Up software, and to techniques of two dimensional drawings with the help of AutoCad.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: 2nd year and above Undergraduate Students

Time: 08.30-10.30, 08.30-10.30, 08.30-10.30

Days: Monday, Wednesday, Friday

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2059 - Construction Technology-1

Credits: 3

Type: Workshop

Instructor/s: Umesh Lavingia, Hamid Raj, Varun Shah

This course is an introduction to fundamental structural principles,materials and their properties. This workshop familiarizes students with different materials by allowing them to explore the physical properties of these materials on site. This course focuses on basic structural principles - forces, loads & type of structures & geometries-illustrated with examples from nature and the immediate built environment, and explored through model making.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have registered for or cleared Basic Design - I at the Faculty of Design are eligible for the course.

Time: 08.30-11.30 14.30-17.30

Days: Tuesday, Friday

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2060 - VR-Graphic Design

Credits: 3

Type: Workshop

Instructor/s: Kamalika Bose, Jaai Kakani

This workshop utilizes graphic methods and techniques as tools of visual representation. The course work introduces students to the principles of visual perception, and to various techniques of graphical representation. Exercises deal with the representation of simple objects and processes through different techniques and media. (BLOCK COURSE)

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Basic Design - I from Faculty of Design & VR - Drawing with Color course. (or Colour Workshop & Sketching with Colour form the old curriculum)

Time: 14.30-17.30, 14.30-17.30, 14.30-17.30, 10.30-13.30

Days: Monday, Tuesday, Wednesday, Thursday

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2061 - Construction Technology -III

Credits: 2

Type: Workshop

Instructor/s: Kireet Patel, Anuj Anjaria, Niyati Patel

This course focuses on construction, production and manufacturing of components, elements and systems used within the interiors of buildings. It addresses joinery, junctions and assembly of different types of structural elements through drawings and model making as well as experimentation with different materials in the workshop.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Students who have cleared Structure & Material (CT) - I & II are eligible for this course. (or Basic Structure - I,II & BMMC - I, II from the old course)

Time: 09.30-10.30 14.30-17.30

Days: Thursday, Friday

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2064 - Exploring Museums

Credits: 2

Type: Workshop

Instructor/s: Rajesh Sagara

This course will familiarize students with the museums of Ahmedabad. The exercise will help the students develop their understanding towards, color, motif, form, and interior spaces. It will involve both the skills of reading and observations and develop imagination.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: 2nd year and above students

Time: 14.30-18.30

Days: Thursday

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2065 - Weaving Workshop

Credits: 2

Type: Workshop

Instructor/s: Rajan Choudhary, Fakira

Apart from scientific knowledge of the fabric as an interior element, This course allows students to learn hands on' the making of cloth by using the table looms. The course is based on experimentation with fabrics and yarns to introduce a range of weaving methods.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: None

Time: 14.30-18.30

Days: Wednesday

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2066 - Wood Workshop

Credits: 2

Type: Workshop

Instructor/s: Vishal Wadhwani

This workshop familiarizes students with different types of wood and its properties. It explores wood and its joinery through the course by working with the material. It develops the understanding of material as a construction material.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Only for Undergraduate students 2nd year and beyond.

Time: 14.30-18.30

Days: Thursday

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2067 - Rediscovering Ahmedabad

Credits: 2

Type: Workshop

Instructor/s: Hamid Raj

This course is a journey to rediscover the old city of Ahmadabad. Ahmedabad just recently celebrated its 600th birthday. The heritage of traditions, culture and architecture is explored. The city has continued to evolve, adjust and accommodate our present day needs. The city is fortunate to have continued the rich architectural practice with some of the most acclaimed architects having built modern masterpieces.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: None

Time: 14.30-18.30

Days: Tuesday

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2069 - Communication Workshop

Credits: 2

Type: Workshop

Instructor/s: Aditi Vashisht

Effective communication is essential to any discipline. Its importance for the field of design is more pronounced as it relies on it right from the stages of conception to the execution and subsequent proliferation. Though visually oriented, the field of Design relies heavily on verbal and written communication as well. This workshop course introduces students to different modes and formats of formal communication and allows them to explore the techniques and methods of conveying information effectively. It concentrates on developing clarity of thought and using correct and appropriate language to convey thought and ideas.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: 1st and 2nd year students of the UG programs.

Time: 08.30-10.30, 08.30-10.30

Days: Monday, Thursday

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2070 - 2D to 3D

Credits: 2

Type: Workshop

Instructor/s: Henry Skupniewicz

Form is, whether we admit it or not, about material and fabrication. Without a proper understanding of the later two, the former will be meaningless. This class explores everything from bending to folding, origami to laser cutting - whatever relates to making - 2D materials into 3D forms. Students will develop mastery over these skills through hands-on activities and assignments.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: All years, All faculty (Seat Limit of 8 students)

Time: 08.30-10.30, 08.30-10.30

Days: Wednesday, Friday

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2071 - Generating Form Through Making

Credits: 2

Type: Workshop

Instructor/s: Henry Skupniewicz

Where does 'form' come from? Where should it come from? And, how should

it arise? This class will explore the ways that we, as designer, can create systems to help us generate forms and new design ideas. By bouncing between theory and physical making, we will be able to better understand our design process as well as others that we have yet to explore.

Faculty: Design

Program: Undergraduate Program in Interior Design

Prerequisites: Postgraduate 1st year all faculty (Seat Limit of 8 students)

Time: 14.30-18.30

Days: Tuesday

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2504 - Generative Design Process - I

Credits: 3

Type: Design Workshop

Instructor/s: Jwalant Mahadevwala, Krishna Shastri

This workshop investigates the design process through experimentation with systems and their behaviour. Small workshops involving analog experiments explore material behaviour, material systems, and self-organizations create responsive and dynamic systems. Students are introduced to the theory of generative design process through reading material on concepts such as patterns, fractal geometry, cellular automata, and self-organization.

Faculty: Design

Program: Postgraduate Program in Interior Architecture & Design

Prerequisites: Students who are currently registered in Semester I in a PG program at Faculty of Design.

Time: 14.30-17.30, 14.30-17.30

Days: Tuesday, Wednesday

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5077 - Concrete Technology

Credits: 5

Type: Lecture Type 3

Instructor/s: Parth Thaker, Bhargav Tewar

Theory: This course engages students in an in-depth study of the properties and behavior of concrete and its ingredients, enabling them to specify and determine technically sound concrete in construction through a better knowledge of the basics. Major topics covered are high performance concrete, self compacting concrete, rheological properties of concrete, and the latest development in the area of concrete technology. Lab: This laboratory work exposes students to the various properties of concrete materials, which allows them to develop adequate understanding of fresh and hardened properties of concrete, and to select appropriate ingredients and concrete mixes. Students will use hands on experiments for the various tests required.

Faculty: Technology

Program: Undergraduate Program in Construction Technology

Prerequisites: None

Time: 14.30-16.30, 10.30-13.30, 09.30 10.30, 10.30-13.30

Days: Monday, Wednesday, Friday, Friday

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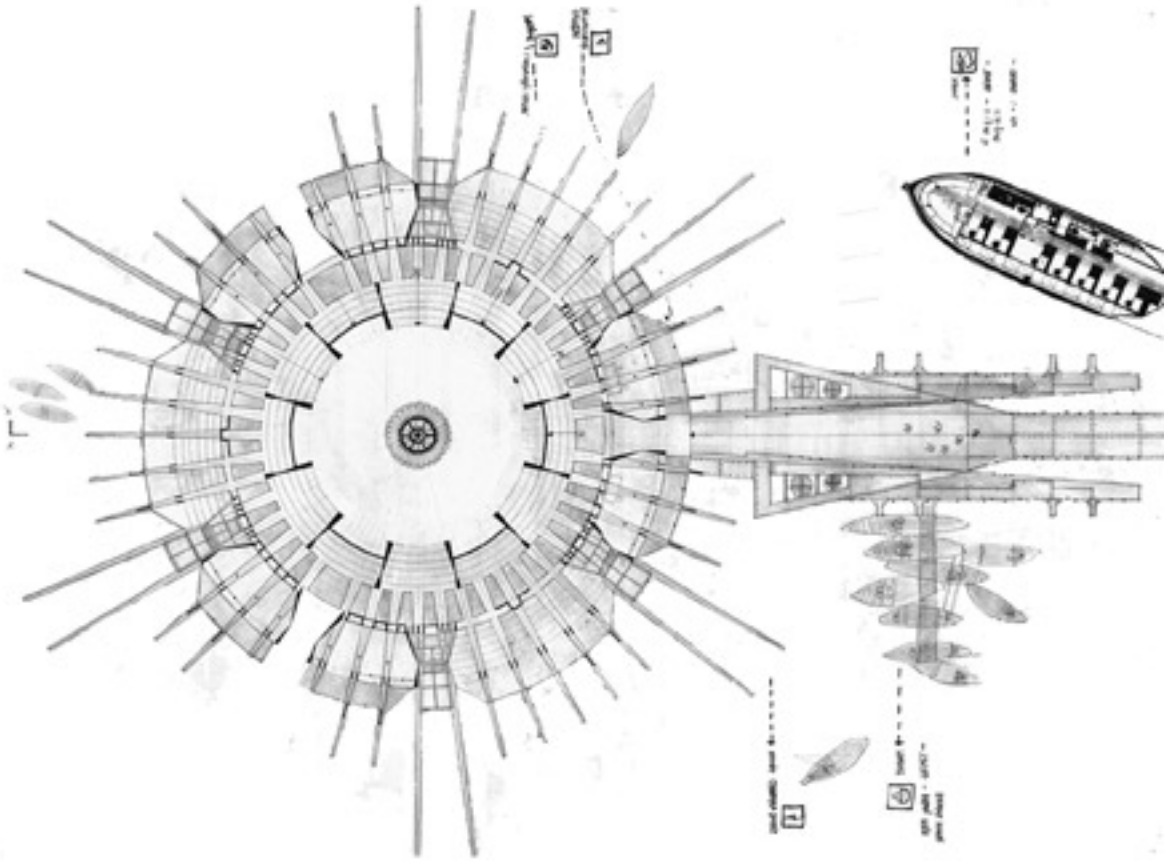

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