

# Course Catalog

Spring Semester 2015

# CONTENTS

<b>1</b>	<b>CEPT University</b>	<b>1</b>
	About Pedagogy Organization Structure	
<b>2</b>	<b>Transforming Pedagogy at CEPT University</b>	<b>5</b>
<b>3</b>	<b>Programs at CEPT University</b>	<b>7</b>
<b>4</b>	<b>Course Typology</b>	<b>9</b>
<b>5</b>	<b>Credit Distribution in Undergraduate Program</b>	<b>11</b>
<b>6</b>	<b>Credit Distribution in Postgraduate Program</b>	<b>13</b>
<b>7</b>	<b>Mandatory and Elective Course Listing</b>	<b>15</b>
	Faculty of Architecture Faculty of Design Faculty of Management Faculty of Planning Faculty of Technology	

Advanced Technology  
Computer Application and Programming  
Crafts  
Economics and Development  
Environment  
History, Theory and Criticism  
Housing  
Humanities  
Infrastructure  
Landscape  
Language and Communication  
Management  
Policy and Legislation  
Practice  
Research  
Science and Mathematics  
Services and Advance Technology  
Studio  
Technical Drawing and Visualization  
Technology  
Transport  
Urban & Regional Planning  
Visual Communication and Performing Arts  
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 - the All India Council of Technical Education (AICTE). From

Consequently, the 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 the 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.

Services) are responsible for supporting teaching and research at the University.

CEPT University Research and Consulting (under registration) will be a wholly owned unit of CEPT University, registered under Sec. 25 of the Companies Act (1956). It will manage 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.

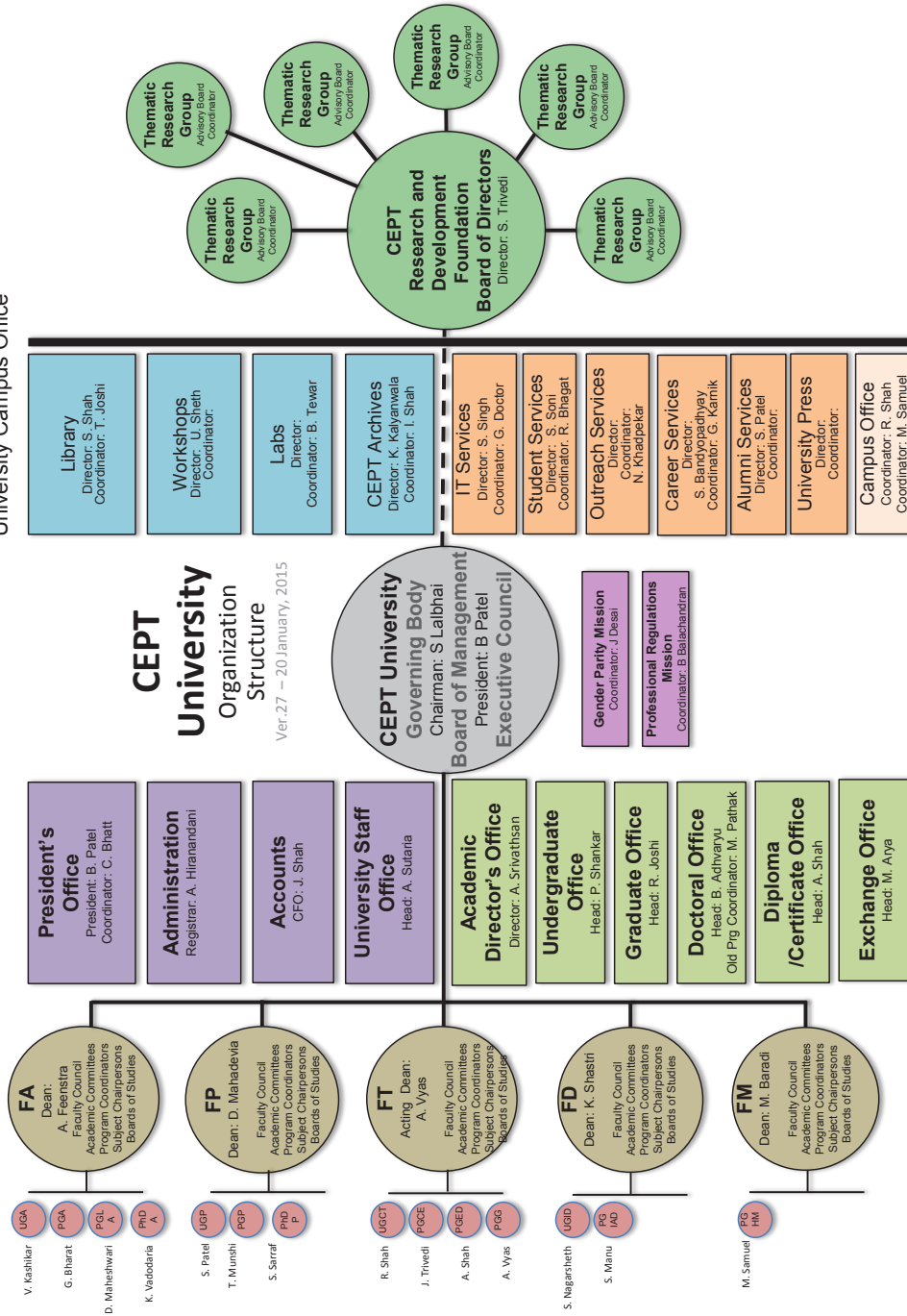
## Organization Structure

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 CEPT University Services (Student Services, Career Services, IT Services, Outreach Services, and Campus



# **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 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
	Postgraduate	Postgraduate Program in Landscape Architecture	Master of Landscape Architecture	Architectural Design
				-
Postgraduate	Postgraduate Program in 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
			International Master of Interior Architectural Design	History, Theory & Criticism
				Energy Efficiency
	Postgraduate	Postgraduate Program in Interior Architecture & Design	International Master of Interior Architectural Design	Craft & Technology
Postgraduate	Postgraduate Program in Interior Architecture & Design	International Master of Interior Architectural Design	History, Theory & Criticism	
FACULTY OF MANAGEMENT	Postgraduate	Postgraduate Program in Habitat Management	Master of Habitat Management	-
FACULTY OF PLANNING	Undergraduate	<b>Undergraduate Program in Planning (Admission paused for 2014)</b>	<b>Bachelor of Planning</b>	-
	Postgraduate	Postgraduate Program in Planning	Master of Urban and Regional Planning	Land Use Planning
				Environmental Planning
				Housing
Postgraduate	Postgraduate Program in Planning	Master of Urban and Regional Planning	Infrastructure Planning	
Postgraduate	Postgraduate Program in Planning	Master of Urban and Regional 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
<b>Lecture</b>	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
<b>Lecture (small)</b>	- 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
<b>Discussion seminar</b>	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
<b>Research Seminar</b>	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
<b>Studio</b>	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
<b>Studio Type 2</b>	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
<b>Guided research (thesis)</b>	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
<b>Workshop</b>	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
<b>Design Workshop</b>	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
<b>Independent study</b>	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
<b>Makeup tutorial</b>	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).
<b>Internship</b>	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.

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.

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  
 SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	1033	Joinery in Building Elements	3	Sankalpa, Krunal Patel, Vicky Achnani, Tanvi Jain	Should be a registered student of FA-UG	08.30-10.30, 14.30-18.30	Thursday, Thursday	Technology, Workshop
	1034	Fundamentals of Structures II	2	Mona Khakhar	Should have completed one course in Structures	08.30-10.30	Friday	Technology
	1036	Humanities I: Introduction to Culture and Society	2	Madhavi Desai	Should be a registered student of FA-UG	14.30-16.30	Monday	Humanities, History Theory and Criticism
	1077	Studio II	6	Vishwanath Kashikar, Isha Talsania, Saptarshi Mitra, Freyaan Anklesaria	Should be a registered student of FA-UG	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	1078	Visualization and Representation II	4	Sachin Soni, Arundhati Saikia, Kinny Soni, Saptarshi Mitra, Krunal Mistry, Pratyush Shankar	Should be a registered student of FA-UG	14.30-18.30, 14.30-18.30	Tuesday, Friday	Technical Drawing and Visualization
	1038	Building Elements II	2	Mona Khakhar, M.C.Gajjar	Open to FA,FD, and FT UG students who	14.30-18.30	Tuesday	Technology, Workshop
IV								

					have cleared either the subject Joinery in Building Elements offered in FA-UG or one course in construction					
	1040	Ceramics/Sculpture	2	Snehal Kashikar	Open for all (2 batches of 25 students each Monday and Thursday)	14.30-18.30	Monday, Thursday	Workshop, Visual Communication and Performing Arts		
IV	1041	Daylighting Design	2	Vishwanath Kashikar	FA and FD UG second year onwards, all PG with architecture or interior background	08.30-10.30	Thursday	Environment		
	1042	Architectural Design Studio IV	6	Puneet Mehrotra, Alexandre D'Aram, Sachin Soni, Anjali Kadam	Should have cleared FA UG Studio II	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio		
	1043	Humanities 3 : The Scientific World View	2	Sonal Mehta	Open for all	08.30-10.30	Wednesday	Humanities, History Theory and Criticism		
	1079	History & Theory of Architecture-2	2	Sachin Soni	All UG 3rd year onwards and all PG students	08.30-10.30	Tuesday	History Theory and Criticism		
VI	1044	Building Technology	2	Mona Khakhar	Mandatory for FA UG only	14.30-16.30	Monday	Technology		

VII	1046	Professional Practice	3	Parth Shah	Mandatory for FA UG only	14.30-17.30	Thursday	Practice
	1047	Architectural Design Studio VI	6	Rathin Goghari, Parth Shah, Krishnakant Parmar	Should have cleared FA UG studio IV	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday	Studio
	1048	History of Architecture: Post Industrialization to the Present	2	Pratyush Shankar, Gauri Bharat	Open for all	08.30-10.30	Friday	History Theory and Criticism
	1050	Office Training	20	Vishwanath Kashikar	Studio 6 Cleared			Practice, Studio
VIII	1015	Architectural Design Studio 8	8	Sankalpa, Vicky Achnani, Nitin Raje, Milind Patel	Should have completed 22 weeks internship (Office training ) with an established Architect	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Studio
	1016	Architectural Design Studio 9	8	Meghal Arya, Giulia Setti	Should have completed FA-UG Studio VIII	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Studio
	1051	Sustainable Design	3	Jigna Desai	Mandatory subject for FA UG Pre final year students also Mandatory for those wish to choose Sustainability as Minor in FA PG, and as an elective it is open	14.30-17.30	Thursday	Environment, History Theory and Criticism



## MANDATORY COURSES

POSTGRADUATE PROGRAM IN ARCHITECTURE

SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	1572	Architectural Conservation	2	Jigna Desai, Khushi Shah	Completion of M.Arch. Foundation Studio OR First Stage (3 yrs) in FA/ FD/ FT UG.	08.30-10.30	Thursday	Technology, History Theory and Criticism
	1573	Case Studies in Conservation	2	Jigna Desai	Completion of First Stage (3years) in any Faculty	14.30-16.30	Wednesday	Technology, History Theory and Criticism
	1574	History, Theory and Criticism Studio - 1	9	Gauri Bharat	Completion of M.Arch. Foundation Studio	10.30-13.30; 10.30-13.30; 10.30-13.30	Monday, Wednesday, Friday	Studio
	1575	Case Studies in Architectural Analysis (Optional core for even Architectural Design Major)	2	Giulia Setti	Completion of M.Arch. Foundation Studio OR First Stage (3 yrs) in FA UG.	08.30-10.30	Wednesday	History Theory and Criticism
	1576	Key Texts in History & Theory	2	Gauri Bharat, A. Srivathsan, Jigna	Completion of M.Arch.	14.30-16.30	Tuesday	History Theory and Criticism





	1583	Conservation Studio - I	9	Jigna Desai	Completion of M.Arch. Foundation Studio	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio				
IV	1588	Capstone Project	15	Gauri Bharat	Should have completed all previous studios required by the program			Research, Thesis				

## MANDATORY COURSES

POSTGRADUATE PROGRAM IN LANDSCAPEARCHITECTURE

SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	1537	Ecology	2	Deepa Maheshwari	UG 4th year onwards, all PG students	14.30-16.30	Monday	Environment, Landscape
	1538	Planting Design and Management	2	Deepa Maheshwari	UG 4th year onwards, all PG students	14.30-16.30	Friday	Environment, Landscape
	1539	Theory of Landscape Design	2	Anjali Jain	Only for MLA-MLD students.	08.30-10.30	Thursday	History Theory and Criticism, Landscape
	1540	Landscape Design Studio – II MLA / MLD	9	Bobby Sujansingani, Divya Shah, Ridhi Kapoor	Only for MLA-MLD II Semester students.	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday	Studio
IV	1589	Thesis	14	Deepa Maheshwari, Sandip Patil, Prabhakar B. Bhagwat, Divya Shah	Students who have cleared third semester '1568 Landscape Design' Studio III			Studio, Landscape

## ELECTIVE COURSES

FACULTY OF ARCHITECTURE

SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	1056	How to Look at Art	2	Esther David	Open for all	14.30-16.30	Friday	Visual Communication and Performing Arts
	1071	Architectural Photography	2	Parth Shah	Open for UG students 2nd year level onwards, DSLR camera is required	14.30-18.30	Wednesday	Workshop, Visual Communication and Performing Arts
	1081	Flexible by Design	2	Vishwanath Kashikar	Open for all PG students as well as UG students from 3rd year onwards	08.30-10.30	Monday	History Theory and Criticism
	1082	Poetics of Material: Bamboo	2	Sankalpa	Open for FA and FT UG Students till third year level	14.30-18.30	Wednesday	Workshop, Technology
	1083	Basic English	2	Neha Krishanakumar	Open for all	08.30-10.30, 08.30-10.30	Monday, Wednesday	Language and Communication
	1084	Models of Morphology	2	Nitin Raje	Open for all UG	08.30-10.30	Monday	Science and

					final year stuents and all PG students						Mathematics
1085	Drama Games	2	Rakesh Semwal	Open for all	14.30-18.30	Friday	Workshop				
1086	Place Making in Urban India	2	Gauri Bharat, Priyanka Kanhare (TA)	Should be a FA UG registered student	14.30-18.30	Wednesday	Humanities				
1087	Sculpture	2	Mayur Gupta	Open for all FA and FD Students	14.30-18.30	Friday	Visual Communication and Performing Arts				
1088	Figurines in Clay	2	Snehal Kashikar	Open for all	14.30-18.30	Friday	Visual Communication and Performing Arts				
1089	Deployable System: Collapse-Transport-Reinstate	2	Aditya Patel, Krunal Patel	Open to all	14.30-18.30	Wednesday	Workshop				
1076-T	English Communication	2	Neha Krishanakumar	Open for students with basic English language skills	08.30-10.30	Tuesday	Language and Communication				
1584	Ideal Cities	2	Rajiv Kadam	Completion of Semester 1 in FA-PG or FP-PG; or First Stage (3 years) in UG-FA	16.30-18.30	Tuesday	History Theory and Criticism				
1585	Of Doors, Passages and Territories	2	P V K Rameshwar	Completion of Semester 1 in FA-PG or FP-PG; or First Stage (3 years) in UG-FA	08.30-10.30	Friday	History Theory and Criticism				
1586	Shaping Contemporary Cities:	2	Giulia Setti	None.	16.30-18.30	Monday	History Theory and				
II											

			Memory, Traces, Voids										
	1587		Practising Social Spaces	2	Mehrnaz Amiraslani	None	16.30-18.30	Friday	Criticism				
II	1542		Introduction to Landscape Design	2	Deepa Maheshwari, Sandip Patil, Divya Shah, Parin Shah	Undergraduate students 5th semester onwards, all PG students	14.30-16.30	Wednesday	Environment, Landscape				
	1590		Water Resources Modelling	2	S. S. Rao	All PG students	08.30-10.30	Tuesday	Environment				

## MANDATORY COURSES

UNDERGRADUATE PROGRAM IN INTERIOR DESIGN

SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	2074	Basic Design-II	6	Krishna Shastri, Shrutie Tamboli, Henry Skupniewicz, Rishav Jain, Aditi Vashisht	Students who have cleared Basic Design - I from the Faculty of Design are eligible for the course	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Workshop, Studio
	2075	VR- II Analytical Drawing	3	Kireet Patel	Students who have cleared VR I - TRD from the Faculty of Design are eligible for the course	14.30-17.30, 14.30-17.30	Monday, Thursday	Technical Drawing and Visualization
	2076	VR-II- Drawing Interior Spaces	2	Rajesh Sagara	Students who have cleared Basic Design - I from the Faculty of Design are eligible for the course	08.30-10.30, 08.30-10.30	Monday, Thursday	Visual Communication and Performing Arts
	2077	Humanities	2	Amal Shah	Open for all	08.30-10.30	Wednesday	History Theory and Criticism

IV	2078	Construction Technology-II	3	Hamid Raj, Varun Shah	Students who have cleared CT-I from the Faculty of Design are eligible for the course.	08.30-11.30, 10.30-13.30	Tuesday, Thursday	Technology, Technical Drawing and Visualization
	2038	Interior Design Studio - II	6	Manisha Basu, Jay Thakkar, Kamalika Bose	Students who have cleared Int. Design Studio - I from the Faculty of Design are eligible for the course.	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	2039	Furniture Design - II	4	Komal Dighe, Nikhil Aggarwal	Students who have cleared Furniture Design - I from the Faculty of Design are eligible for the course.	14.30-17.30, 10.30-13.30	Monday, Thursday	Workshop, Studio
	2041	Materials & Methods of Construction	2	Canna Patel	UG students: 2nd year and above	14.30-16.30	Tuesday	Technology, Technical Drawing and Visualization
	2079	Construction Technology-IV	2	Shehzad Irani	Students who have cleared CT-III from the Faculty of Design are eligible for the course.	14.30-16.30	Thursday	Technology
	2080	Indian History	2	Shehal Shah	Open for all	08.30-10.30	Monday	History Theory and

											Criticism
	2043	Interior Design Studio - IV	6	Kireet Patel, Sanal Thathapuzha	Students who have cleared Interior Design Studio - III are eligible for the course	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday		Studio		
VI	2081	Interior Construction Drawing-II	4	Ramesh Patel, Amal Shah	UG students only: Cleared Interior Design Studio - III, ICD-1, and have sufficient knowledge of AutoCAD 2D	14.30-17.30, 10.30-13.30	Tuesday, Thursday		Technical Drawing and Visualization		
	2082	Professional Practise: Estimation and Contracts	2	Ramesh Patel	Students who have cleared Studio II from Faculty of Design are eligible for the course	08.30-10.30	Thursday		Practice, Management		
	2083	Modern Movement	2	Snehal Nagarsheth, Aditi Vashisht	Open for all	08.30-10.30	Friday		Crafts		
VII	2047	Office Training	20	Snehal Nagarsheth, Kireet Patel	Students who have cleared Studio-IV and Interior Construction Drawing-1&2				Practice, Studio		
	2048	Interior Design Studio - V	6	Snehal Nagarsheth,	Students who	10.30-13.30,	Monday,		Studio		



				Parantap Bhatt, Poonam Jolly	have cleared Interior Design Studio - IV from the Faculty of Design are eligible for the course	10.30-13.30, 10.30-13.30	Wednesday, Friday	
2049	Research Methods	2		Kamalika Bose	Students who have registered for Studio - V from Faculty of Design are eligible for the course	08.30-10.30	Tuesday	Research
2050	Renovation & Alteration	2		Poonam Jolly	Students who have cleared Int. Design Studio - IV & Int. Const. Drg. - II are eligible for the course	14.30-16.30	Tuesday	Technology, Practice
2051	Design: Expression & Technology	2		Snehal Nagarsheth	Open for all	10.30-12.30	Thursday	History Theory and Criticism
2084	Behavioral Science	2		Gautam Shah	Students who have registered for Studio - V from Faculty of Design are eligible for the course	08.30-10.30	Friday	History Theory and Criticism, Humanities

X	2022	Thesis	15	Kamaika Bose	Students who have cleared Studio - Vi from Faculty of Design are eligible to register for this course			Thesis
---	------	--------	----	--------------	---	--	--	--------

## MANDATORY COURSES

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

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	2502	Craft in Interior Architecture	2	Jay Thakkar	Students who have cleared '2522 Craft: Processes, Collaboration and Cultural Perception'	9.30-13.30	Thursday	Crafts, Technology
	2512	Crafts: Contemporary Orientation in Interior Architecture	2	Kireet Patel, Rishav Jain	Students who have cleared '2522 Craft: Processes, Collaboration and Cultural Perception'	14.30-16.30	Wednesday	Crafts, Technology
	2515	Advanced Building Energy Efficiency Studio	4	Munjil Bhatt, Sanyogita Manu	Students who have cleared '2523 Building Energy Efficiency Studio'	10.30-13.30, 14.30-17.30	Friday, Friday	Environment, Research, Studio
	2516	Generative Design Process - II	3	Jwalant Mahadewwala, Krishna Shastri	Students who are currently registered in	8.30-10.30, 14.30-18.30	Tuesday, Tuesday	Workshop

							semester IX or above in a UG program at FD or FA, or in a PG program at FD, FA					
	2529	History and Theory-II	3	Snehal Shah	Students who have cleared '2521 History & Theory -I'	10.30-13.30	Monday	History Theory and Criticism				
IV	2533	Thesis	15	Sanyogita Manu	Should have completed all previous studios required by the program			Research, Thesis				

## ELECTIVE COURSES

FACULTY OF DESIGN

SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA	
II	2028	Exploring Space-Sketching	2	Rajesh Sagara	Open for all	14.30-18.30	Friday	Visual Communication and Performing Arts, Workshop	
	2053	Digital Technology-II	2	Amal Shah, Ahmed Abbas Mornin	For UG students: 2nd Year and above, Sound knowledge of AutoCAD 2D functions, A Laptop For PG students: Sound knowledge of AutoCAD 2D functions, A Laptop	08.30-10.30, 08.30-10.30	Tuesday, Friday	Computer Application and Programming	
	2054	Sculpture	2	Rajesh Sagara	Open for all	14.30-18.30	Wednesday	Visual Communication and Performing Arts	
	2085	Drawing to Design	2	Hamid Raj	First year UG students of Design and	14.30-18.30	Tuesday	Workshop	

2086	How to Talk like a Designer	2	Henry Skupniewicz, Shrutie Tamboli	Architecture Students who have cleared Basic Design - I from the Faculty of Design are eligible for the course	14.30-16.30	Wednesday	Language and Communication						
2087	Language and Literature	2	Hemang Desai	Open for all	08.30-10.30	Wednesday	Language and Communication						
2088	Textile in Interiors	2	Malavi Choudhary (Fakira)	Open for all	14.30-18.30	Friday	Workshop						
2089	Origami Forms in Clay	2	Snehal Kashikar	Open for all	14.30-18.30	Wednesday	Workshop						
2090	Carving the Future	2	Henry Skupniewicz	Students who are proficient in Auto-Cad	14.30-17.30	Friday	Technical Drawing and Visualization						
2091	Metal Workshop	2	Niyati Patel	Open for all	14.30-18.30	Friday	Workshop						
2092	Screen Printing	2	Rajesh Sagara	For 2nd year and above students only	14.30-18.30	Monday	Workshop						
2518	Architecture in Post- Independence India	2	Snehal Shah	Students currently registered in semester VII in a UG program at FA, FD, PG students at FA , FD	16.30-18.30	Monday	History Theory and Criticism						
2530	Introduction to Research Design and Communication	3	Saket Sarraf, Sanyogita Manu, VF	Students currently	14.30-17.30	Thursday	Research						
II													

					registered 1st year of MIAD, PhD in FA, FP					
					Students with inclination for research, engagement and critique of theory, and creative application. Some understanding and experience of designing, commissioning design, or critiquing design. Attendance, reading, and consistent involvement required.					
2531	Meaning and Design	2		Sharmila Sagara, Seema Khanwalkar, Kishore Budha				08.30-10.30, 08.30-10.30	Wednesday, Friday	Humanities, Humanities
2532	Idea- Metaphysics, Manifestation and Material	2		Sharmila Sagara	Open for all			08.30-10.30	Wednesday	Humanities

## MANDATORY COURSES

POSTGRADUATE PROGRAM IN HABITAT MANAGEMENT  
 SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	3006	Practical Governmental Ethics	1	Scott Wrighton	None.	16.30-18.30	Friday	Management
	3007	Human Resource Management	2	Margie Parikh	PG students with exposure to at least one course in management during previous semesters	14.30-16.30	Tuesday	Management
	3025	Ward Management Plan Studio	6	R I Shah, Mercy Samuel, Ravikant Joshi, Shelly Kulsrestha (AA), Darshana Rawal, Manvita Baradi	Sem II MHM students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Management, Studio
	3026	Financial Management and Public Finance	3	Bala Bhaskaran, Ravikant Joshi	All PG students	14.30-17.30	Monday	Management
	3027	Insights on Strategy and Marketing	3	C. Gopalakrishnan, Mercy Samuel	UG 3rd year onwards	14.30-17.30	Thursday	Management
IV	3032	Capstone Project	15	Mercy Samuel	Cleared all Three studios			Research, Thesis



## ELECTIVE COURSES

FACULTY OF MANAGEMENT  
SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTORS	PREREQUISITE	TIME	DAYS	AREA
II	3028	Accounting Basics	2	Rajnikant Trivedi	None.	16.30-18.30	Thursday	Management
	3029	Introduction to e-Governance & m-Governance	2	Gayatri Doctor	MHM students and UG 3rd year onwards	16.30-18.30	Tuesday	Management, Computer Application and Programming
	3030	Project Finance	2	Rajnikant Patel	UG 3rd year onwards	14.30-16.30	Wednesday	Management
	3031	Intellectual Property Rights	2	Padmin Buch	UG 4th year onwards	14.30-16.30	Friday	Management
	3033	Community Based Management of Human Settlements: Participatory Approach & Framework	2	Vivek Rawal	UG 3rd year onwards	16.30-18.30	Monday	Management
IV	3034	Materials & Technologies: Lessons From Traditions	2	Nimish Patel	UG 3rd year onwards	16.30-18.30	Wednesday	Management
	3035	Gender and the City	2	Madhavi Desai, Manvita Baradi	Open for all.	14.30-16.30	Thursday	Management

## MANDATORY COURSES

UNDERGRADUATE PROGRAM IN PLANNING

SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
IV	4020	Urban History - 2	3	Rutul Joshi, Renu Desai	Open for all PG students & UG students from 2nd year onwards	08.30-10.30	Thursday	History Theory and Criticism
	4021	Statistics - 2 (with integration of spatial)	2	Ami Divetiya	Cleared Statistics-1 offered in last Spring Semester	10.30-12.30	Thursday	Science and Mathematics
	4022	Urban Infrastructure (Planning and Design)	2	Saswat Bandyopadhyay, Subhrangsu Goswami, Tushar Bose	Only for B Plan students	14.30-16.30	Tuesday	Infrastructure, Urban & Regional Planning
	4023	Infrastructure Planning Lab	6	Neeru Bansal, Subhrangsu Goswami, VF	Only for B Plan students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
VI	4048	Sociology in Practice	2	Gaurang Jani	Open for all	16.30-18.30	Monday	Practice
	4024	Planning Theory - 2 (Urbanization Theories, & Planning Processes)	2	Anil Roy	Only for B Plan students	08.30-10.30	Monday	History Theory and Criticism
	4025	Economics - 2 (Macro)	2	Vishal Dubey	Only for B Plan	14.30-16.30	Thursday	Economics and

								students					Development
4026	Economics, Public Finance, Development Theories)		2	Anjali Kadam		Only for B Plan students	08.30-10.30	Tuesday	History Theory and Criticism				
4027	Urban Renewal and Conservation		2	Vanishree Herlekar		Only for B Plan students	14.30-16.30	Wednesday	Urban & Regional Planning, History Theory and Criticism				
4028	Urban Governance and Planning		2	Chandrima Mukhopadhyay		Only for B Plan students	08.30-10.30	Wednesday	Management				
4029	Project Formulation, Appraisal and Management		2	Deepa Maheshwari, Sandip Patil		Open for B Plan students as well as other UG students of 3rd year and above level & all PG students	08.30-10.30	Friday	Landscape				
4030	Landscape Planning & Design		6	Minal Pathak, Jignesh Mehta, Utkarsh Patel, Mansi Shah, Jennifer Pierce		Only for B Plan Students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio				
4049	Urban Development Lab		3	Saswat Bandopadhyay, C.N. Ray		Only for B Plan students	14.30-16.30, 14.00-16.30, 14.30-16.30	Monday, Wednesday, Friday	Practice				
4050	Professional Practice (Land development legislations, Ethics & Human Values , Communication skills, Project practice)		15	Neeru Bansal		Only for B Plan students			Thesis				
VIII	Thesis												

## MANDATORY COURSES

POSTGRADUATE PROGRAM IN PLANNING

SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	4506	Built Environment and Land Use Planning	2	Sejal Patel, Rutul Joshi	All PG students	14.30-16.30	Monday	Urban & Regional Planning
	4507	Financing Urban Development	2	Chandrima Mukhopadhyay, Dinesh Mehta, Meera Mehta	All PG students and 4th year B. Plan.	14.30-16.30	Thursday	Urban & Regional Planning
	4508	Fundamentals of Housing	2	Darshini Mahadevia	Basic course in economics & Bachelors students 4th year onwards	14.30-16.30	Tuesday	Urban & Regional Planning, Housing
	4510	Introduction to Environmental Planning	2	Ashwani Kumar, Rutool Sharma	All PG students, UG students of 5th semester and onwards	16.30-18.30	Tuesday	Urban & Regional Planning, Environment
	4511	Land Development and Management Practices	2	Madhu Bharti	All PG students	08.30-10.30	Friday	Urban & Regional Planning, Housing
	4513	Urban and Regional Infrastructure Planning	2	Saswat Bandyopadhyay, Subhrangsu Goswami	MURP students	08.30-10.30	Wednesday	Urban & Regional Planning
	4516	Public Transport Planning	2	Abhijit Lokre, Shivanand Swamy	All PG students	14.30-16.30	Friday	Urban & Regional Planning, Transport

II	4517	Transport Infrastructure Planning and Design - 1 (Optional core for even Infrastructure Planning Major)	2	Abhijit Lokre	All PG students	08.30-10.30	Thursday	Urban & Regional Planning, Transport, Infrastructure
	4518	Transport Planning & Modelling	2	Shalini Sinha	MURP students	16.30-18.30	Monday	Urban & Regional Planning, Transport
	4577	Theory of Urbanization and Cities	2	Anil Roy	All PG students	08.30-10.30	Tuesday	Urban & Regional Planning
	4578	Land use and Transport Planning (Theory)	2	Talat Munshi, Rutul Joshi	All PG students	08.30-10.30	Friday	Urban & Regional Planning, Transport
	4579	Settlements in Transition: Rural-Urban Interactions	2	Ravi Sannabhadli, Anurima Mukherjee Basu	All PG students	08.30-10.30	Thursday	Urban & Regional Planning
	4580	Housing and Community Development	2	Ravi Sannabhadli, Bhuvana S.	All PG students	16.30-18.30	Monday	Urban & Regional Planning, Housing
	4581	Urban Environment	2	Minal Pathak, Subhrangsu Goswami	All PG students, UG students, 3rd year onwards	08.30-10.30	Monday	Urban & Regional Planning, Environment
	4582	Climate Change and Cities I	2	Minal Pathak	All PG students, UG students, 4th year onwards	16.30-18.30	Thursday	Urban & Regional Planning, Environment
	4583	Land Use Planning Studio	9	Bimal Patel, Sejal Patel, Rutool Sharma, Talat Munshi, Bhargav Adhvaryu, Vatsal Patel	MURP students	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Urban & Regional Planning, Studio
	4584	Housing Strategy	9	Vanishree Herlekar	MURP students	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Urban & Regional Planning, Housing, Studio

IV	4585	City Infrastructure Prioritization Studio	9	Saswat Bandyopadhyay	MURP students	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Urban & Regional Planning, Infrastructure, Studio
	4586	Environmental Planning Studio	9	Ashwani Kumar	MURP students	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Urban & Regional Planning, Environment, Computer Application and Programming, Studio
	4587	Strategic Transportation Plan for a City	9	Shalini Sinha, Nitika Bhakuni	MURP students	10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday, Friday	Urban & Regional Planning, Transport, Studio
	4596	Professional Practice for Planners	2	Sejal Patel, Saswat Bandyopadhyay, C.N. Ray	Only for MURP Thesis Students	16.30-18.30, 16.30-18.30, 16.30-18.30, 16.30-18.30	Monday, Tuesday, Wednesday, Thursday, Friday	Urban & Regional Planning
	4597	Thesis	15	Talat Munshi	Should have completed all previous studios required by the program			Research

## ELECTIVE COURSES

FACULTY OF PLANNING  
SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	4035	Introduction to Climate Change	2	Ashwani Kumar	Having some learning on basic sciences or atleast one course related to environment science, PHED etc	16.30-18.30	Wednesday	Practice
	4509	Infrastructure Sub-Systems	2	Neeru Bansal, Saswat Bandyopadhyay	All PG students	16.30-18.30	Tuesday	Urban & Regional Planning, Infrastructure
II	4523	Disaster Management	2	C.N. Ray	PG students	16.30-18.30	Friday	Urban & Regional Planning
	4524	Environmental Infrastructure and Services	2	Ashwani Kumar, Mona Iyer	All PG students	16.30-18.30	Friday	Urban & Regional Planning, Environment
	4525	Environmental Legislations, Administration and Governance	2	C.N. Ray	All PG students	08.30-10.30	Wednesday	Urban & Regional Planning, Environment, Policy and Legislation
	4526	Microfinance and Sustainable Livelihoods	2	Pratul Ahuja	All PG students	14.30-16.30	Tuesday	Urban & Regional Planning

4530	Environmental & Social Safeguards in Infrastructure and Development Projects	2	Subhramang Goswami	FP (PG & UG) FM (PG)	16.30-18.30	Wednesday	Urban & Regional Planning, Environment, Infrastructure
4536	Development Innovations	2	Dinesh Mehta, Meera Mehta	All PG students	14.30-16.30	Wednesday	Urban & Regional Planning
4589	Metropolitan Governance	2	Chandrima Mukhopadhyay	PG (FP and FM) and 3rd and 4th year B. Plan students	08.30-10.30	Monday	Urban & Regional Planning, Policy and Legislation
4590	Public Private Partnership in Infrastructure Projects	2	Bhaskar Subramaniam, Saswat Bandyopadhyay	All PG students	16.30-18.30	Wednesday	Urban & Regional Planning
4591	Water Resource Modelling	2	S. S. Rao	All PG students	16.30-18.30	Thursday	Urban & Regional Planning, Infrastructure
4592	Sustainability Pathways and Urban Ecology	2	Jennifer Pierce, Mansi Shah	All PG students, 7th Sem. onward UG students	14.30-16.30	Friday	Urban & Regional Planning, Environment
4593	Culture, Climate and Built Environment	2	Melissa Smith	All PG students, 4th and 5th year UG students	14.30-16.30	Tuesday	Urban & Regional Planning, Environment
4594	Urban Environmental Design	2	Jennifer Pierce, Mansi Shah	All PG students or 7th semester onwards UG students	16.30-18.30	Wednesday	Urban & Regional Planning
4595	Advanced GIS	2	Anjana Vyas, Darshana Rawal	Introductory knowledge on GIS required	14.30-16.30	Monday	Urban & Regional Planning



## MANDATORY COURSES

UNDERGRADUATE PROGRAM IN CONSTRUCTION TECHNOLOGY  
 SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	5090	Engineering Materials-II	4	Anal Sheth, Pavni Pandya	1st year UG students from any faculty	14.30-16.30, 09.30-10.30, 14.30-16.30, 09.30-10.30	Wednesday, Thursday, Thursday, Friday	Technology
	5091	Solid Mechanics	3	Komal Parikh, Dipsha Shah	1st year UG students from any faculty	10.30-13.30, 15.30-16.30, 09.30-10.30	Monday, Tuesday, Wednesday	Technology
	5092	Surveying and Levelling	5	Komal Parikh	1st year UG students from any Faculty	10.30-13.30, 10.30-13.00, 10.30-13.00	Wednesday, Thursday, Friday	Technology
	5093	Engineering Mathematics	3	Natwar Roghelia	Any 1st year UG students	14.30-16.30, 08.30-10.30, 14.30-15.30	Monday, Tuesday, Tuesday	Technology
	5049	Field Studies	3	Devanshu Pandit, Bhargav Tewar, Ajay Patel	Open to all	08.30-10.30, 14.30-16.30, 08.30-17.30	Monday, Monday, Friday	Practice
IV	5094	Fluid Mechanics	3	Dipsha Shah, Shaileja Pandit	Only FT UG students	14.30-16.30, 10.30-13.30	Wednesday, Thursday	Technology
	5095	Analysis of Structural Systems	4	Anal Sheth, Parth Thaker	Clearance of Structural Analysis	08.30-10.30, 15.30-16.30, 10.30-13.30	Tuesday, Tuesday, Wednesday	Technology





## MANDATORY COURSES

POSTGRADUATE PROGRAM IN CONSTRUCTION ENGINEERING  
 SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	5532	Independent Study-I	3	Ganesh Devkar, Jyoti Trivedi, P.V.Akalkotkar, Vivek Bhatt	PG students, mandatory for PG CEM	14.30-15.30	Friday	Research
	5533	Construction Contracts	3	Ganesh Devkar, Jyoti Trivedi	PG students, mandatory for PG CEM	14.30-17.30	Tuesday	Practice
	5536	Construction Management-II	6	Ganesh Devkar, Jyoti Trivedi	PG students, Studio-I Construction Management-I, mandatory for PG CEM	10.30-13.30, 10.30-13.30	Monday, Wednesday	Practice, Studio
IV	5611	Value Engineering & Engineering Economics	3	Jayanth Murthy, Ganesh Devkar	Mandatory for PG CEM, all PG students	14.30-15.30, 08.30-10.30	Thursday, Friday	Economics and Development
	5614	Thesis	15	Jyoti Trivedi	Should have completed all previous studios required by the program			Research, Thesis

**MANDATORY COURSES**  
 POSTGRADUATE PROGRAM IN ENGINEERING DESIGN  
 SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	5617	Advanced Design of Structures (SED)	4	Aanal Shah, Dhara Shah	PG SED	08.30-10.30, 14.30-16.30	Thursday, Tuesday	Advanced Technology, Technical Drawing and Visualization
	5618	Earthquake Engineering and Dynamics of Structures (SED)	4	Himat Solanki, Dhara Shah	PG SED	08.30-10.30, 14.30-16.30	Tuesday, Thursday	Advanced Technology, Advanced Technology
	5619	Advanced Geo-Technical Engineering (SED)	2	Mihir Vora	UG FT 4th year onwards, PG FT students interested in Foundation Engineering	08.30-10.30	Wednesday	Advanced Technology
	5620	Studio-2 Multi Storey Structures (SED)	5	Dhara Shah, Bhairav Patel, Mehul Shah	PG SED-Gravity studio	10.30-12.30, 10.30-13.30	Monday, Wednesday	Advanced Technology, Technical Drawing and Visualization, Studio

IV	5625	Thesis (SED)	15	Aanal Shah, Dhara Shah	Should have completed all previous studios required by program			Research, Thesis
----	------	--------------	----	------------------------	--	--	--	------------------

## MANDATORY COURSES

POSTGRADUATE PROGRAM IN ENGINEERING DESIGN  
 SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	5521	Railways and Logistics (IED)	2	Anal Sheth, HS Duggal	All PG students	14.30-16.30	Monday	Transport
	5548	Traffic and Transport Engineering (IED)	2	Nishant Sheth	All PG students	8.30-10.30	Friday	Transport
	5551	Infrastructure Design - City Level (IED)	9	Tushar Bose, Mihir Das	MIED students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Friday	Studio
	5627	PPP for Infrastructure Projects (IED)	2	Chandrima Mukhopadhyay	PG students	8.30-10.30	Tuesday	Technology
IV	5628	Dissertation (IED)	15	Tushar Bose	Should have completed all previous studios required by the program			Research, Thesis

## MANDATORY COURSES

POSTGRADUATE PROGRAM IN GEOMATICS

SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	5554	Digital Image Processing	3	Bindi Dave	Open for All	14.30-16.30, 14.30-15.30	Tuesday, Thursday	Technology
	5555	Information Systems and Development	3	Shaily Gandhi	Willingness to explore the world of programming – Open for all	16.30-19.30	Wednesday	Computer Application and Programming
	5557	Spatial Analysis Techniques	3	Hardik Panchal	Understanding of Basic GIS	14.30-16.30, 14.30-15.30	Monday, Friday	Technology
	5558	Municipal GIS	6	Jitendra Dadhania, A R Dasgupta , Darshana Rawal	Geomatics 2nd Semester students	10.30-13.30, 10.30-13.30, 10.30-13.30	Monday, Wednesday, Thursday	Studio, Technology
IV	5638	Thesis	15	Anjana Vyas	Should have completed all previous studios required by the program			Research, Thesis



## ELECTIVE COURSES

FACULTY OF TECHNOLOGY  
 SPRING SEMESTER - 2014-15

SEMESTER	COURSE CODE	COURSE NAME	CREDITS	INSTRUCTOR/S	PREREQUISITE	TIME	DAYS	AREA
II	5031	Disaster Management	3	Bharat Patel	Open to all	16.30-19.30	Monday	Management
	5061	Communicative Language Training	2	Pervin Doctor	Open to all	16.30-18.30	Wednesday	Language and Communication
	5062	Heating Ventilation and Air Conditioning	3	Ashutosh Shukla	Students who have completed V <sup>th</sup> semester from any Faculty	16.30-19.30	Tuesday	Services and Advance Technology
	5066	Tribal Art	2	Soha Trivedi	Open to all	16.30-18.30, 16.30-18.30	Monday, Friday	Workshop
	5067	Renewable Energy Technologies	2	C. G. Pandya	Open to all	16.30-18.30	Thursday	Technology
	5099	Building Information Modeling	2	Viral Bhatt	Students who have cleared 1 <sup>st</sup> year from any Faculty	14.30-16.30	Wednesday	Workshop
	5100	Introduction to Soil Dynamics	2	Pavni Pandya	Students who have cleared 1 <sup>st</sup> year from any Faculty	16.30-18.30	Tuesday	Technology
	5102	Basics of Irrigation structures	2	Bhargav Tewar	3 <sup>rd</sup> year and above & PG	17.30-19.30	Tuesday	Technology

					students of any Faculty						
5103	Concepts of Real Estate and Valuation	2	Reshma Shah	3rd year & above from any Faculty	15.30-17.30	Tuesday	Management				
5104	Sustainable Technologies and Waste Utilization	2	Shailaja Pandit	2nd year (semester III) onwards including all PG students of any Faculty	14.30-16.30	Thursday	Technology				
5105	Digital Multimedia Technology	2	N. J. Naidu	Students who have completed Elective course of BS I or Students should have basic knowledge of IT & Digital Multimedia	16.30-18.30	Thursday	Technology				
5612	Infrastructure Finance	2	Rajnikant Patel	UG 4th year level onwards & PG students	14.30-16.30	Monday	Practice				
5613	Fundamentals of Real Estate	3	Jigar Pandya	UG 4th year level onwards, all PG students	16.30-19.30	Wednesday	Practice				
5615	BIM for Construction	3	Jay Maniyar	UG 4th year level onwards, all PG students	14.30-16.00, 14.30-16.00	Thursday, Friday	Practice				
5616	Lean Principles for Construction	2	Nimit Karia	UG 4th Year level onwards, all	17.30-19.30	Tuesday	Practice				
II											



5633	Space, Time and Crime	2	Anjana Vyas	Open for All	16.30-18.30, 15.30-16.30	Thursday, Friday	Technology
5634	Social Media, Human & Situation Analysis	2	A R Dasgupta , Jitendra Dadhania	Open for All	09.30-10.30, 09.30-10.30	Monday, Thursday	Technology
5635	Digital Technology for Preserving Heritage	2	Virat Kothari	At least basic knowledge of computer is required. Students having knowledge of architecture, construction, maps, and Geospatial technologies will be an added advantage.	08.30-10.30	Wednesday	Technology
5636	Spatial Modeling	3	Darshana Rawal	Knowledge of Advanced GIS and Digital Image Processing	08.30-09.30, 08.30-09.30, 08.30-09.30	Monday, Thursday, Friday	Technology
5637	GIS for Landscape Architecture	3	P.D. Yadav, Hardik Panchal	Knowledge of Geology and Hydrology is required	15.30-16.30, 16.30-18.30	Thursday, Friday	Technology, Landscape

# COURSE DETAILS

# Advanced Technology

<p>5581 - Engineering Aspects of Sustainable Design (SED)</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Bhairav Patel</p> <p>The objective of this course is to introduce the concepts of sustainability of structures to the 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.</p> <p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: UG 4th year onwards, PG students</p> <p>Time: 14.30-16.30</p> <p>Days: Monday</p> <p>..... ....</p>	<p>Days: Thursday, Tuesday</p> <p>..... ....</p> <p>5618 - Earthquake Engineering and Dynamics of Structures (SED)</p> <p>Credits: 4</p> <p>Type: Lecture</p> <p>Instructor/s: Himat Solanki, Dhara Shah</p> <p>Earthquake and its terminology, incorporating seismology, tectonic plates and faults, earthquake measurement, the Indian earthquake scenario, past major earthquakes and their disasters, performance of buildings during earthquakes, and enhancement of structural systems to resist earthquakes. Free and forced vibration, damping and its effects, modeling of structures, transient vibration, response of single degree of freedom system and multiple degree of freedom system to dynamic loading, mode superposition method and analysis by response spectrum theory.</p> <p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: PG SED</p> <p>Time: 08.30-10.30, 14.30-16.30</p> <p>Days: Tuesday, Thursday</p> <p>..... ....</p>	<p>Students are expected to work on the actual soil report of the project.</p> <p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: UG FT 4th year onwards, PG FT students interested in Foundation Engineering</p> <p>Time: 08.30-10.30</p> <p>Days: Wednesday</p> <p>..... ....</p> <p>5620 - Studio-2 Multi Storey Structures (SED)</p> <p>Credits: 5</p> <p>Type: Studio</p> <p>Instructor/s: Dhara Shah, Bhairav Patel, Mehul Shah</p> <p>An extension of Gravity structures studio, where in students take up individual live project. They prepare structural system at all levels, analyze, design and detail the structure for gravity as well as lateral loads using static and response spectrum analysis. Introduction to non-linear analysis.</p> <p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: PG SED-Gravity studio</p> <p>Time: 1 0.30-12.30, 10.30-13.30</p> <p>Days: Monday, Wednesday</p> <p>..... ....</p>
<p>5617 - Advanced Design of Structures (SED)</p> <p>Credits: 4</p> <p>Type: Lecture</p> <p>Instructor/s: Aanal Shah, Dhara Shah</p> <p>Design of special components in reinforced concrete structures such as deep beams, corbels, retaining walls, flat slabs and folded plates. Design of gantry girders, plate girders, beam-column and industrial structures with different roofing systems such as trusses and portals in steel structures.</p> <p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: PG SED</p> <p>Time: 08.30-10.30, 14.30-16.30</p>	<p>5619 - Advanced Geo-Technical Engineering (SED)</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Mihir Vora</p> <p>The basic principles of shallow and deep foundation design with reference to site investigation, soil classification and review of index properties. Experimental tests in understanding the various parameters of soil. Determining the bearing capacity and settlement calculations, ground improvement and reclamation techniques, and liquefaction potential. Design of pile foundations and introduction of soil structure interaction.</p>	<p>5622 - Plates and Shells : Theory and Computer Aided Analysis (SED)</p> <p>Credits: 3</p> <p>Type: Lecture</p> <p>Instructor/s: Ashish Shah</p> <p>Introduction, Shell terminology, classification and structural behaviour of shell. Membrane</p>

theory of singly and doubly curved Shells, Circular plates and folded plates. Design and detailing as per the codal provisions. Modelling of shells on FEM based software and studying the output and comparison.

Faculty: Technology

Program: PG

Prerequisites: PG SED

Time: 14.30-17.30

Days: Friday

.....  
....

**5623 - Design Aspects of Tall Buildings (SED)**

Credits: 2

Type: Lecture

Instructor/s: Bhairav Patel

The objective of this course is to introduce students to the development of tall buildings, various structural systems being adopted, consideration of various loads acting, special design requirements and challenges faced in design and construction of tall buildings. Interactive teaching methodology focused on case studies and applications will be adopted in this course. Case studies of innovative structural system, construction challenges faced, innovation in materials etc for a few tall buildings will be discussed.

Faculty: Technology

Program: PG

Prerequisites: UG 4th year onwards, all PG students

Time: 08.30-10.30

Days: Friday

.....  
....

**5624 - Evaluation, Repair and Strengthening of Structures (SED)**

Credits: 4

Type: Lecture

Instructor/s: R. J. Shah, VF

Investigation and Evaluation of Distressed Structures. Preliminary investigation, detailed investigation, documentation, field observation and condition survey, sampling and material testing, evaluation, final report. Materials & Technologies for Repair: Surface repair, material requirements, material selection, surface preparation, reinforcing steel, cleaning, repair and protection, bonding repair materials to existing concrete, placement methods. Strengthening and Stabilization: Techniques/Design considerations, beam shear capacity strengthening, shear transfer strengthening between members, stress reduction techniques, column strengthening, flexural strengthening, connections stabilisation and strengthening, crack stabilization.

Faculty: Technology

Program: PG

Prerequisites: PG SED

Time: 14.30-15.30, 10.30-13.30

Days: Wednesday, Thursday

.....  
....

# Computer Application and Programming

<p>2053 - Digital Technology-II</p>	<p>Program: PG</p>	<p>world problems, understanding database schemas and models, integrating the spatial database, knowledge representation of spatial</p>
<p>Credits: 2</p>	<p>Prerequisites: MHM students and UG 3rd year onwards</p>	
<p>Type: Workshop</p>	<p>Time: 16.30-18.30</p>	<p>analysis. This course provides concepts and hands-on experience with state-of-the art technologies for delivering GIS services and applications. This is a basic course for students who wish to develop their skills as GIS programmers.</p>
<p>Instructor/s: Amal Shah, Ahmed Abbas Momin</p>	<p>Days: Tuesday 4586 - Environmental Planning Studio</p>	
<p>The course explores the use of the digital media as a tool for both design and creation. It introduces the students to the various techniques of 3D form explorations with the help of tools such as AutoCAD and Rhino.</p>	<p>Credits: 9</p>	<p>Faculty: Technology</p>
<p>Faculty: Design</p>	<p>Type: Studio</p>	<p>Program: PG</p>
<p>Program: UG</p>	<p>Instructor/s: Ashwani Kumar</p>	<p>Prerequisites: Willingness to explore the world of programming – Open for all</p>
<p>Prerequisites: For UG students: 2nd Year and above, Sound knowledge of AutoCAD 2D functions, A Laptop For PG students: Sound knowledge of AutoCAD 2D functions, A Laptop</p>	<p>The studio in urban environmental focus to analyze the issues on related to natural, physical, social, amenity ranging from air, industrial pollution to degradation of water systems including river/lake/groundwater etc. to waste using the various approaches such as pollution reduction ecological, resources bioregion or sensitive areas conservation, zoning and land use planning. The studio also encourages employing tools and methods of environmental information, thematic mapping, trends, environmental hotspots, environmental indices, spatial multi-criteria evaluation etc.</p>	<p>Time: 16.30-19.30</p>
<p>Time: 08.30-10.30, 08.30-10.30</p>	<p>Days: Tuesday, Friday</p>	<p>Days: Wednesday</p>
<p>..... ....</p>	<p>..... ....</p>	<p>..... ....</p>
<p>3029 - Introduction to e-Governance &amp; m-Governance</p>	<p>Faculty: Planning</p>	<p>5621 - Finite Element Method (SED)</p>
<p>Credits: 2</p>	<p>Program: PG</p>	<p>Credits: 2</p>
<p>Type: Lecture</p>	<p>Prerequisites: MURP students</p>	<p>Type: Lecture</p>
<p>Instructor/s: Gayatri Doctor</p>	<p>Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30</p>	<p>Instructor/s: Rupal Shah</p>
<p>The course explores e-Governance which is in essence, the application of Information and Communications Technology to government functioning in order to create a Simple, Measurable, Accurate, Relevant and Transparent (SMART) governance. The Course is made of four modules which include some basic ICT &amp; e-governance concepts, the National e-Governance Plan (NeGP), e-governance initiatives in India, e-governance initiatives in Gujarat and m-governance initiatives. Lectures are based on case studies, with presentations &amp; assignment based evaluation.</p>	<p>Days: Monday, Wednesday, Thursday, Friday</p>	<p>General steps, Applications, Advantages of FEM, Stiffness Method: Spring element &amp; Beam Element - &amp; its expansion for Truss(2D &amp; 3D), Frame(2D &amp; 3D) &amp; Grids; Assemblage, Superposition, Boundary Conditions, Concept of Local(Member) Axes and Global(System) Axes and Transformation of axes in 2D and 3D, SPECIAL CONDITIONS: Symmetry in Structures, Inclined or skew supports, Temperature gradients, Support settlements, Hybrid structures, Computer Programming: using Microsoft EXCEL and QuickBASIC/Visual BASIC; for various sub-routines of matrix operations-addition, multiplication and inversion, subscripted variables, graphics programming, preparation of simple programs for solution or checking of hand calculated problems.</p>
<p>..... ....</p>	<p>..... ....</p>	<p>..... ....</p>
<p>Faculty: Management</p>	<p>5555 - Information Systems and Development</p>	<p>Faculty: Technology</p>
<p></p>	<p>Credits: 3</p>	<p>Program: PG</p>
<p></p>	<p>Type: Lecture</p>	<p></p>
<p></p>	<p>Instructor/s: Shaily Gandhi</p>	<p></p>
<p></p>	<p>This course provides fundamental theoretical knowledge about information systems in general and the unique demands created by geographic information. Topics include designing program code to handle various real</p>	<p></p>



Prerequisites: Knowledge of Stiffness and Flexibility methods in Structural Analysis

Time: 08.30-10.30

Days: Monday

.....  
....

5622 - Plates and Shells : Theory and Computer Aided Analysis (SED)

Credits: 3

Type: Lecture

Instructor/s: Ashish Shah

Introduction, Shell terminology, classification and structural behaviour of shell. Membrane theory of singly and doubly curved Shells, Circular plates and folded plates. Design and detailing as per the codal provisions. Modelling of shells on FEM based software and studying the output and comparison.

Faculty: Technology

Program: PG

Prerequisites: PG SED

Time: 14.30-17.30

Days: Friday

.....  
....

# Crafts

---

2083 - Modern Movement

Time: 9.30-13.30

Credits: 2

Days: Thursday

Type: Lecture

2512 - Crafts: Contemporary Orientation in Interior Architecture

Instructor/s: Snehal Nagarsheth, Aditi Vashisht

Credits: 2

Modernism has been an influential phase in the history and evolution of design that can also be seen as a phenomenon owing to its widespread influence. This course examines this phenomenon across the globe. Modernism now has several definitions and manifestations. This course will enable the students to study and evaluate modernism in all its forms and interpretations.

Type: Lecture

Instructor/s: Kireet Patel, Rishav Jain

Crafts of buildings as potential technological situation can emerge as an unique opportunity in practices of architecture and interior design. We are constantly in search of cultural meaning in architecture and interior design. Manual skills are rooted in our culture and are still present in our society. Can practices of architecture and interior design learn to give importance to crafts of buildings and crafts communities such that it enriches crafts and our life in general?

Faculty: Design

Program: UG

Prerequisites: Open for all

Time: 08.30-10.30

Faculty: Design

Days: Friday

Program: PG

.....  
....

Prerequisites: Students who have cleared '2522 Craft: Processes, Collaboration and Cultural Perception'

2502 - Craft in Interior Architecture

Time: 14.30-16.30

Credits: 2

Days: Wednesday

Type: Design Workshop

Instructor/s: Jay Thakkar

.....  
....

Craft in Interior Architecture course introduces students to the concept and meaning of Building Crafts: 'Space Making Crafts' (SMC) and 'Surface Narrative Crafts' (SNC) in the field of interior architecture. The course will deal with various research methods like identification, mapping, documentation, investigation, interpretation and representation of the Building Crafts. Students will be exposed to various types of SMCs and SNCs through research and field visits to sites in Gujarat.

Faculty: Design

Program: PG

Prerequisites: Students who have cleared '2522 Craft: Processes, Collaboration and Cultural Perception'

# Economics and Development

---

4025 - Economics - 2 (Macro Economics, Public Finance, Development Theories)

Credits: 2

Type: Lecture

Instructor/s: Vishal Dubey

This lecture course focuses on macro economic and public finance concepts and theories. It covers a range of theories and models and concepts like GDP and cannons of taxation. It also aims to familiarize the students with the developments theories and the planning process in India.

Faculty: Planning

Program: UG

Prerequisites: Only for B Plan students

Time: 14.30-16.30

Days: Thursday

.....

....

5611 - Value Engineering & Engineering Economics

Credits: 3

Type: Lecture

Instructor/s: Jayanth Murthy, Ganesh Devkar

This course makes the students aware of potential value engineering techniques in the construction industry. It also delivers Fundamentals of Engineering Economics.

Faculty: Technology

Program: PG

Prerequisites: Mandatory for PG CEM, allPG students

Time: 14.30-15.30, 08.30-10.30

Days: Thursday, Friday

.....

....

5631 - Introduction to E-Commerce

Credits: 2

Type: Lecture

Instructor/s: Jimmy Shethana

The trade and commerce of the full world economy is going towards trading on the internet. With global perspective in mind this course will give students knowledge on how trade is done on the internet. The course will give the backend requirements for ecommerce, the pros and cons of ecommerce; so that when students graduate to face the real world, they are aware of the commercial aspects of trading on the internet.

Faculty: Technology

Program: PG

Prerequisites: Nil

Time: 16.30-18.30

Days: Tuesday

.....

....

# Environment

1041 - Daylighting Design

Credits: 2

Type: Lecture

Instructor/s: Vishwanath Kashikar

This course introduces students to the concepts of daylighting design. Through a series of experimental models and exercises, students learn the impact of design of facades on indoor lighting quality and quantity. Theories of daylighting design are introduced subsequent to the experimentation stage. Weekly assignments

Faculty: Architecture

Program: UG

Prerequisites: FA and FD UG second year onwards, all PG with architecture or interior background

Time: 08.30-10.30

Days: Thursday

1051 - Sustainable Design

Credits: 3

Type: Lecture

Instructor/s: Jigna Desai

In the bid to achieve comfortable and inspiring living environment, humans have in the last century, left a definitive mark on the environment and on fellow humans threatening the human existence the way we know it. The last four decades have seen a rise in discussions in identifying these impacts, mitigating it and most importantly evolving 'designs' and practices that would be sensitive and sustainable. This course would present the principles of sustainable practice to the designers of the built environment. It would be done by supporting reflective learning that would provide opportunities to the students to articulate their own standpoint on sustainable design. It would also bring about questions of technology and choice of living; society and perception of material: culture and forms of expression to open up

both architectural-technological as well as societal dimension in this course.

Faculty: Architecture

Program: UG

Prerequisites: Mandatory subject for FA UG Pre final year students aslo Mandatory for those wish to choose Sustainability as Minor in FA PG, and as an elective it is open to FA PG students only

Time: 14.30-17.30

Days: Thursday

1537 - Ecology

Credits: 2

Type: Lecture

Instructor/s: Deepa Maheshwari

Fundamentals of Ecology : ecosystems and their functioning - nature and characteristics; Components: biotic and abiotic, major types, the biosphere and its functioning. Ecological Processes: energy flow-energy source, food chains and trophic structure, ecological pyramids, biogeochemical cycles, evolution - variation and selection, speciation. Ecology of growth: regulation, limits to growth, carrying capacity. Ecological communities: spatial structure, ecological niche and species diversity, succession. Limiting factors and their operations: climatic and atmospheric factors, soils, biotic factors, interaction of factors. Ecosystem inertia and resilience. Ecological balance and survival thresholds. Ecological conditions of India, Eco systems and forest types of India. Human influences on ecosystems: historical overview, the rise of agriculture, civilizations, industrialization and concomitant urbanization, impacts on the environment: global perspective, national perspective - ecosystems of India: ecological issues.

Faculty: Architecture

Program: PG

Prerequisites: UG 4th year onwards, all PG students

Time: 14.30-16.30

Days: Monday

1538 - Planting Design and Management

Credits: 2

Type: Lecture

Instructor/s: Deepa Maheshwari

Planting Design is to be studied in relation to the requirements of plant material in terms of soil, water quality and quantity, light intensity, temperature, ground water moisture, natural climatic factors particularly high & low temperatures, rainfall pattern and distribution, fog, frost, wind etc. Introduction to ecology as the basis of planting design. Relationship of soil, texture and pH; Light intensity-quality and duration; temperature; water surface ground and atmospheric air quality; wind and microclimate as factors affecting growth of plants. Classification of plant material for various uses in landscape design; physical attributes of plant materials, use in landscape design (shape and form, structure, flower colour, foliage texture, size, habits, etc.) Criteria for selection of plant material for specific design applications. Regional geography and climate as factors affecting plant selection. Basic principles of planting design, maintenance and management as a factor in design with plants. Maintenance requirement of different categories of plant material, visual, aesthetic and functional considerations in planting design. Planting for visual effect, accent. Growth rate of plants as a criterion for plant choice for particular situations. Comparisons of advantages and disadvantages of fast, medium and slow growing trees. Concept of nurse planting. Creating conditions for plant establishment; planting and transplanting trees and shrubs. Role of plant material in improvement of environment, (e.g. soil conservation, modification of microclimate). Planting for shelter - windbreaks and shelter belts, planting for special purpose wind shelter, erosion control, wild life, land rehabilitation, the role of planting in watershed management. Design exercises in the urban, sub urban and rural context. The preparation of planting concepts and planting plans. Study of landscape values of plant material through planting design exercises.

Faculty: Architecture

Program: PG

Prerequisites: UG 4th year onwards, all PG students

Time: 14.30-16.30

Days: Friday

**1542 - Introduction to Landscape Design**

Credits: 2

Type: Lecture

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

This course introduces students to the fundamental elements and natural processes such as geology, soils, climate, hydrology, vegetation and fauna. Students will formulate and conduct site analysis to assess the natural layers of site as a part of larger regional context. This will focus on understanding the topography, principles for slope analysis, site grading, and understanding of plant materials and their use in landscape. The subject will provide an overview of fundamentals of Landscape architecture as a discipline.

Faculty: Architecture

Program: PG

Prerequisites: Undergraduate students 5th semester onwards, all PG students

Time: 14.30-16.30

Days: Wednesday

**1580 - Discourses on Development Sustainability**

Credits: 2

Type: Seminar

Instructor/s: Urvi Desai

The main objective of this course is to study the term 'development' as defined from a range of different perspectives, and try to arrive at a comprehensive understanding,

especially in the context of sustainability and providing a good quality of life. The course will deal with a range of issues such as 'progress vs development'; urbanization & industrialization; environment & development; sustainable development; and development in the context of climate change. In this regard, it will look at development from the perspectives of equitable resource distribution, environmental impact, cultural identity, sustainable approaches to development, and urban sustainability.

Faculty: Architecture

Program: PG

Prerequisites: Completion of Semester 1 in any PG; OR First Stage (3 yrs) in FA

Time: 08.30-10.30

Days: Monday

**1590 - Water Resources Modelling**

Credits: 2

Type: Lecture

Instructor/s: S. S. Rao

The course is on Modelling in Water resources with maximum free software available globally and develop suitable models for practical purposes Module 1: Basics of Surface Water Hydrology, Flood Modelling, Storm water Drainage, Water Distribution, Water Quality Modelling, Water Evaluation and Planning System (WEAP), Soil and Water Assessment Tool (SWAT) for Watershed Modelling Module 2: Basics of Ground Water Hydrology, Groundwater movement, contamination, DRASTIC (Groundwater Vulnerability of Aquifers).

Faculty: Architecture

Program: PG

Prerequisites: All PG students

Time: 08.30-10.30

Days: Tuesday

**2515 - Advanced Building Energy Efficiency Studio**

Credits: 4

Type: Studio

Instructor/s: Munjal Bhatt, Sanyogita Manu

This course will build advanced capabilities for understanding the performance of and designing building components affecting building energy efficiency, such as envelope, systems and human behaviour. It will help students to understand the delicate balance and resultant trade-offs between the aforementioned components and passive and active strategies. Design exercises, surveys, measurements and experiments will be used as primary tools to meet the objectives of this course.

Faculty: Design

Program: PG

Prerequisites: Students who have cleared '2523 Building Energy Efficiency Studio'

Time: 10.30-13.30, 14.30-17.30

Days: Friday, Friday

**4510 - Introduction to Environmental Planning**

Credits: 2

Type: Lecture

Instructor/s: Ashwani Kumar, Rutool Sharma

Course will discuss environmental planning related concepts and issues in three broad parts: debates, quality assessment and planning approaches. First part of the course will involve discussion on key environmental debates and drawing contrary arguments. The second part will focus on profiling and assessment techniques such as indexing, mapping etc. Various approaches and framework for integrating environment in development practices will be discussed in third part of the course.

Faculty: Planning

Program: PG

Prerequisites: All PG students, UG students of 5th semester and onwards

Time: 16.30-18.30

Days: Tuesday

..... ....	Faculty: Planning	necessitates managing environmental impacts of urbanization including congestion, deteriorating air and water quality, waste and growth in energy and resource consumption. This course equips students to understand the dynamics of human-environment relations in urban areas using a multidisciplinary perspective. Looking at key concepts, policies, programs and successful best practices, it will equip students with solutions for planning sustainable urban futures.
4524 - Environmental Infrastructure and Services	Program: PG	
Credits: 2	Prerequisites: All PG students	
Type: Lecture	Time: 08.30-10.30	
Instructor/s: Ashwani Kumar, Mona Iyer	Days: Wednesday	
The infrastructure or services primarily required to achieve environmental safety and safeguard human health will be covered. The course will focus on such important infrastructure/services including treatment plants (sewage and effluent), solid waste, hazardous waste, E-waste and bio medical waste. The course is designed to cover principles of theory and practice for site characterization, system components' planning and design, best practices, technology options, cost considerations (capital and O&M), financing arrangements, implementation options (including PPP) and issues related to performance monitoring.	..... ....	Faculty: Planning
Faculty: Planning	4530 - Environmental & Social Safeguards in Infrastructure and Development Projects	Program: PG
Program: PG	Credits: 2	Prerequisites: All PG students, UG students, 3rd year onwards
Prerequisites: All PG students	Type: Lecture	Time: 08.30-10.30
Time: 16.30-18.30	Instructor/s: Subhrangsu Goswami	Days: Monday
Days: Friday	There is a growing awareness that benefits of any infrastructure or development project should not be negated by externalities, particularly those caused by the environmental consequences of the project. Therefore the primary objective of this course is to provide required knowledge and skills to the students, to make them capable of developing environmental and social safeguards for infrastructure and development projects, so that the environmental and social impacts can be eliminated or minimized to acceptable level by integrating environmental and social aspects during planning, design, construction, operation and management of any infrastructure and development project.	..... ....
..... ....	Faculty: Planning	4582 - Climate Change and Cities I
4525 - Environmental Legislations, Administration and Governance	Program: PG	Credits: 2
Credits: 2	Prerequisites: FP (PG & UG) FM (PG)	Type: Lecture
Type: Lecture	Time: 16.30-18.30	Instructor/s: Minal Pathak
Instructor/s: C.N. Ray	Days: Wednesday	Climate change is a significant challenge for cities as these are increasingly faced with the burden 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. The course will introduce climate change and its implications for cities. Using case studies of global cities in developing and developed countries, the course highlights climate compatible urban planning and management solutions.
This lecture course provides students with basic knowledge and approaches on rules and regulations related to environment from both international and national perspectives. The initial part of the course covers various legislation like Water Act, Air Act, and EP Act, and then illustrates their implementation through known environmental cases. The course also familiarizes participants with the administrative structure, and roles and powers, of various organizations and environmental institutions working in the environmental field.	..... ....	Faculty: Planning
Faculty: Planning	4581 - Urban Environment	Program: PG
Program: PG	Credits: 2	Prerequisites: All PG students, UG students, 4th year onwards
Prerequisites: All PG students	Type: Lecture	Time: 16.30-18.30
Time: 16.30-18.30	Instructor/s: Minal Pathak, Subhrangsu Goswami	Days: Thursday
Days: Friday	Sustainable management of the urban environment has become one of the major challenges of this century. This development	

.....  
....

**4586 - Environmental Planning Studio**

Credits: 9

Type: Studio

Instructor/s: Ashwani Kumar

The studio in urban environmental focus to analyze the issues on related to natural, physical, social, amenity ranging from air, industrial pollution to degradation of water systems including river/lake/groundwater etc. to waste using the various approaches such as pollution reduction ecological, resources bioregion or sensitive areas conservation, zoning and land use planning. The studio also encourages employing tools and methods of environmental information, thematic mapping, trends, environmental hotspots, environmental indices, spatial multi-criteria evaluation etc.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

**4592 - Sustainability Pathways and Urban Ecology**

Credits: 2

Type: Lecture

Instructor/s: Jennifer Pierce, Mansi Shah

Sustainability Pathways and Urban Ecology starts with a theoretical understanding of the leading discourses in sustainability from an urban perspective. Then we will use these discourses as lenses to interpret the ecological aspects of city function, especially ecosystem services.

Faculty: Planning

Program: PG

Prerequisites: All PG students, 7th Sem. onward UG students

Time: 14.30-16.30

Days: Friday

.....  
....

**4593 - Culture, Climate and Built Environment**

Credits: 2

Type: Lecture

Instructor/s: Melissa Smith

This course explores factors of the climatic and cultural context to which designers of the built environment respond, at the scale of the building, neighborhood and city. Form-driving elements, both physical and social, are studied alongside a series of case studies that encompass traditional dwelling formation, historical design methods, twentieth century approaches, and the current situation of dwellings and settlements in India.

Faculty: Planning

Program: PG

Prerequisites: All PG students, 4th and 5th year UG students

Time: 14.30-16.30

Days: Tuesday

.....  
....

**5629 - Modelling and Monitoring of Environmental Parameters**

Credits: 2

Type: Lecture

Instructor/s: Anurag Kandya

Earth is a dynamic system witnessing changes with the blink of an eyelid. With the growth in the population, there is a significant change in various environmental parameters which includes built-up area; ambient temperature, relative humidity, anthropogenic

heat and subsequently the entire surface energy budget; emissions and concentration of the gases (pollutants); and many more. Alterations in these parameters have adversely affected the overall environment and finally the entire mankind. With this background, the proposed course is designed with a focus to monitor as well as model the various environmental parameters. Topics which will be covered in this course are: i) Land use / land cover (assessment and forecasting); ii) Air quality (assessment and forecasting); iii) Local climatic zones and Urban Heat Island Effect; iv) Bio-meteorological Indices and Human Thermal Comfort and v) Impact of meteorology on human thermal comfort and building energy consumption. Real-time assignments based on the above mentioned topics will be outlined which shall be attempted by students in a group of 4-5.

Faculty: Technology

Program: PG

Prerequisites: Nil

Time: 18.30-19.30, 18.30-19.30

Days: Tuesday, Friday

.....  
....

# History Theory and Criticism

<p>1036 - Humanities I: Introduction to Culture and Society Credits: 2</p>	<p>Time: 08.30-10.30  Days: Wednesday</p>	<p>sensitive and sustainable. This course would present the principles of sustainable practice to the designers of the built environment. It</p>
<p>Type: Lecture  Instructor/s: Madhavi Desai</p>	<p>..... ....</p>	<p>would be done by supporting reflective learning that would provide opportunities to the students to articulate their own standpoint on sustainable design. It would also bring about questions of technology and choice of living; society and perception of material: culture and forms of expression to open up both architectural</p>
<p>This course will explore buildings as cultural and social entities. Different buildings in Ahmedabad will be studied in terms of function, ways of making, tectonics/ aesthetic, and memory as the ways in which they become part of and define Amdavadi cultural and society. Students are expected to do some fieldwork, readings and presentations during the course.</p>	<p>1048 - History of Architecture: Post Industrialization to the Present  Credits: 2  Type: Lecture  Instructor/s: Pratyush Shankar, Gauri Bharat</p>	<p>technological as well as societal dimension in this course.</p>
<p>Faculty: Architecture  Program: UG  Prerequisites: Should be a registered student of FA-UG  Time: 14.30-16.30  Days: Monday</p>	<p>This lecture based advanced history of architecture course will present an overview of the key concepts and changes that occurred in architecture from the era of industrialization to the present. The impact of industrialization in Europe, the advent of Modernism in Europe, the era of postmodernism, and the challenges faced in contemporary society will constitute the content of this course. The course will be graded through various assignments and a final exam.</p>	<p>Faculty: Architecture  Program: UG  Prerequisites: Mandatory subject for FA UG Pre final year students aslo Mandatory for those wish to choose Sustainability as Minor in FA PG, and as an elective it is open to FA PG students only  Time: 14.30-17.30</p>
<p>..... ....</p>	<p>Faculty: Architecture  Program: UG</p>	<p>Days: Thursday  ..... ....</p>
<p>1043 - Humanities 3 : The Scientific World View  Credits: 2  Type: Lecture  Instructor/s: Sonal Mehta</p>	<p>Prerequisites: Open for all  Time: 08.30-10.30  Days: Friday  ..... ....</p>	<p>1079 - History &amp; Theory of Architecture-2  Credits: 2  Type: Lecture  Instructor/s: Sachin Soni</p>
<p>This course explores the scientific worldview as the dominant way of thinking that has influenced much of human endeavour in modern history, particularly in the twentieth century. The course may explore key shifts in arts and sciences, modernism, colonialism and technological visions of world, making in the past hundred years. It is particularly important to stress the similarity in philosophical underpinnings in these disciplines and developments.</p>	<p>1051 - Sustainable Design  Credits: 3  Type: Lecture  Instructor/s: Jigna Desai</p>	<p>Theoretical emphasis of this course is Codification &amp; 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 with contemporary cases to elaborate theoretical themes.</p>
<p>Faculty: Architecture  Program: UG  Prerequisites: Open for all</p>	<p>In the bid to achieve comfortable and inspiring living environment, humans have in the last century, left a definitive mark on the environment and on fellow humans threatening the human existence the way we know it. The last four decades have seen a rise in discussions in identifying these impacts, mitigating it and most importantly evolving 'designs' and practices that would be</p>	



Faculty: Architecture

Program: UG

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

Time: 08.30-10.30

Days: Tuesday

.....  
....

1080 - Humanities 4: Politics, Economics, Globalization

Credits: 2

Type: Lecture

Instructor/s: Persis Ginwala

In this course, students will actively discuss issues globalization as a phenomenon and its impact on politics, economics and society in general. Using various examples in the Indian context, complex issues related to the workings of society will be debated. Assessment will be based primarily on assignments and presentations.

Faculty: Architecture

Program: UG

Prerequisites: Open for all PG students as well as UG students from 4th year onwards

Time: 14.30-16.30

Days: Tuesday

.....  
....

1081 - Flexible by Design

Credits: 2

Type: Seminar

Instructor/s: Vishwanath Kashikar

This seminar course discusses the various aspects of flexibility in the field of design. Flexibility will be explored on all scales - object, space, building and cities. Through discussions and a short design project, students will understand the different needs and ways of achieving flexibility at various scales.

Faculty: Architecture

Program: UG

Prerequisites: Open for all PG students as well as UG students from 3rd year onwards

Time: 08.30-10.30

Days: Monday

.....  
....

1539 - Theory of Landscape Design

Credits: 2

Type: Lecture

Instructor/s: Anjali Jain

The profession of landscape design is rapidly evolving in the country, wherein its scope is being continuously modified and redefined. To articulate this discussion, the course will use instances from world landscape history, to demonstrate, & illustrate the relation between societal thought & the relation it has with the design manifestation. The lectures will be organized around two key sites (one western and one Indian). Students will be given a set of readings about both. It will also use these examples to allow an understanding of design evaluation. Myths, legends and nature (mythological gardens/gardens and context), sacred geographies, cultural tapestries, enclosure and prospect (Islamic garden making),Town versus country Villas/Sculpture park, Art/Nature (Italian villas/gardens) The garden as theatre (scientific foundations of gardening/French/baroque), Field and points, Parks and gardens (urban and suburban developments/garden cities),The 'English' (gardens) in India Maidans/Cities/Horticulture,The Modern garden, Contemporary landscapes and directions.

Faculty: Architecture

Program: PG

Prerequisites: Only for MLA-MLD students.

Time: 08.30-10.30

Days: Thursday

.....  
....

1572 - Architectural Conservation

Credits: 2

Type: Lecture

Instructor/s: Jigna Desai, Khushi Shah

The main objective of this course is to engage students with ideological debates related to architectural conservation and their related processes. After having outlined the history of conservation, the input sessions will focus on the local, national and international legislative and regulatory mechanisms in context of the ideological positions. By the end of this course, students should be enabled enough to articulate their own position on conservation.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio OR First Stage (3 yrs) in FA/ FD/ FT UG.

Time: 08.30-10.30

Days: Thursday

.....  
....

1573 - Case Studies in Conservation

Credits: 2

Type: Lecture

Instructor/s: Jigna Desai

This course is designed to provide the exposure of various conservation practices in India. While it will be coordinated by the instructor, the input sessions will be by the invited practitioners who will present and discuss their work. Each of the speakers will outline their own position on conservation, relevant issues in the Indian Context and articulate their responses.

Faculty: Architecture

Program: PG

Prerequisites: Completion of First Stage (3years) in any Faculty

Time: 14.30-16.30

Days: Wednesday

.....  
....

1575 - Case Studies in Architectural Analysis (Optional core for even Architectural Design Major)

Credits: 2

Type: Lecture

Instructor/s: Giulia Setti

The course will be focused on the critical analysis of the design process through analytic reading of relevant case studies. The critical enquiry will focus on the relationship between form/tectonics, structure/space, materials/techniques. Each case study will be read in its complexity, through the understanding of its aesthetic, perceptive and cultural aspects.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio OR First Stage (3 yrs) in FA UG.

Time: 08.30-10.30

Days: Wednesday

.....

....

1576 - Key Texts in History & Theory

Credits: 2

Type: Lecture

Instructor/s: Gauri Bharat, A. Srivathsan, Jigna Desai, Vishwanath Kashikar, Rutul Joshi, Nitin Raje, Riyaz Tayyibij

This course provides an overview of texts that have shaped architectural thinking. Each lecture will discuss one text in terms of underlying themes, its impact on architectural discourses and its relationship to intellectual developments at the time. Students will produce summaries of each text, thus developing critical thinking and writing abilities through the course.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio; OR First Stage (3 yrs) in FA or FD

Time: 14.30-16.30

Days: Tuesday

.....

....

1579 - Sustainable Design

Credits: 2

Type: Lecture

Instructor/s: Jigna Desai

While the aspects of sustainable design need very localized 'solutions', over the period of time various architects have responded to the global concerns of sustainable design through very specific approaches. These approaches range from proposing a paradigm shift in 'systems' of architectural design and making to redefining the idea of 'comfort'. This course will bring out such distinct approaches and discuss their relevance in making of the architectural idiom.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio; OR First Stage (3 yrs) in FA or FD

Time: 14.30-16.30

Days: Thursday

.....

....

1582 - History & Theory of Urban Design

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. The key departures in the imagination and form of cities are explained using historical accounts. The other objective of the course is to introduce the history of Urban Design (and physical planning) initiatives across the world after Industrial revolution. Through case studies and writings, students will be encouraged to understand and review such initiatives and formulate a term paper as the final outcome of the course.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio; OR First Stage (3 yrs) in FA or FP

Time: 08.30-10.30

Days: Tuesday

.....

....

1584 - Ideal Cities

Credits: 2

Type: Seminar

Instructor/s: Rajiv Kadam

Designing and planning cities has been a great struggle since our ancient civilizations to identify what is ideal built environment for our great urban life. The elective is an exercise to explore ideal thinking and demonstrating the spatial visualization of Urban Design. The context is very much the Indian urban scenario with its issues today. This course required students to make physical models.

Faculty: Architecture

Program: PG

Prerequisites: Completion of Semester 1 in FA-PG or FP-PG; or First Stage (3 years) in UG-FA

Time: 16.30-18.30

Days: Tuesday

.....

....

1585 - Of Doors, Passages and Territories

Credits: 2

Type: Seminar

Instructor/s: P V K Rameshwar

This course would explore boundaries at various scales- regions, cities, neighbourhoods and the individual units.

Faculty: Architecture

Program: PG

Prerequisites: Completion of Semester 1 in FA-PG or FP-PG; or First Stage (3 years) in UG-FA

Time: 08.30-10.30

Days: Friday

1586 - Shaping Contemporary Cities: Memory, Traces, Voids

Credits: 2

Type: Seminar

Instructor/s: Giulia Setti

The contemporary city with its transformations, discontinuity and fragments defines the fundamental core of the course. What tools are necessary to 'read' the evolution of contemporary urban fabrics? The course aims to provide to the students a critical 'journey' through the transformations that are affecting the contemporary cities, their urban and industrial fabrics. It is a journey that is built up thanks to few key words that determine a fundamental point of view to understand contemporary territories.

Faculty: Architecture

Program: PG

Prerequisites: None.

Time:16.30-18.30

Days: Monday

2051 - Design: Expression & Technology

Credits: 2

Type: Seminar

Instructor/s: Snehal Nagarsheth

This course builds and discusses an understanding of design as a relationship between technology and expression through select examples. It traces a journey of design from Modern Movement to Contemporary and builds a historical perspective. Explores the complex relationships between theory and practice; and enables a critical evaluation of how the past has informed contemporary works in Architecture and Design.

Faculty: Design

Program: UG

Prerequisites: Open for all

Time: 10.30-12.30

Days: Thursday

2077 - Humanities

Credits: 2

Type: Lecture

Instructor/s: Amal Shah

This lecture course builds students' understanding of the correlation of culture and design through the study of living patterns and objects of use. It addresses different concepts of culture and anthropological studies. This course undertakes study of Early Civilizations to understand the manifestations of culture in human development.

Faculty: Design

Program: UG

Prerequisites: Open for all

Time: 08.30-10.30

Days: Wednesday

2080 - Indian History

Credits: 2

Type: Lecture

Instructor/s: Snehal Shah

This course develops the understanding of interior spaces in India. It addresses Indian notion of space making and explores the understand through public buildings as well as development in dwelling domain.

Faculty: Design

Program: UG

Prerequisites: Open for all

Time: 08.30-10.30

Days: Monday

2084 - Behavioral Science

Credits: 2

Type: Seminar

Instructor/s: Gautam Shah

Human behaviour is evident in responses related to: Body, Environment, Space and the Occupants. The human behaviour is seen through body-limb movements or postures, gestures, and as overt expressions in modes like speaking, writings, painting, etc as in expression and communication. Physiological components of behavior show up in survival, health, well being and comfort, spatial occupation with dimensional accommodation and fitment of the human-body, task functionality. Human behaviour sensed through Cognition, Psychological factors, Sensorial perception, Response mechanisms. Environmental responses are of becoming aware of a space. These permeate into a space depending on the spatial characteristics, such as the size, shape, sequencing, quality of barriers, etc. Space is the setting where environment and cognition actualize concurrently. Nature of cognition is one major factor that governs the Space experience. Environment is continually variable and so a space experience is ever expounding. Some environmental conditions and spatial features often occur in concert. And so we expect the presence of one to trigger the other. Occupants for cultural reasons or social norms show varied behaviour. It is also affected by factors like age, sex, level of adaptation, familiarity, limb capacity, body-limb coordination, sensorial abilities and reach extension tools, etc. Behavior (even of lone beings) is substantially in the context of 'awareness' of other human beings (and not necessarily the physical presence). Forms of interpersonal relationships of various races and cultures are different. The space, environment and the occupants together foster a social-contact mechanism.

Faculty: Design

Program: UG

Prerequisites: Students who have registered for Studio - V from Faculty of Design are eligible for the course

<p>Time: 08.30-10.30</p> <p>Days: Friday</p> <p>..... ....</p> <p>2518 - Architecture in Post-Independence India</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Snehal Shah</p> <p>There was a drastic change politically as well as economically post Independence. The cultural aspect of this period played major role changing the outlook of India. Political aspect emerged while economy got developed and hence the search the roots of cultural evolution, rich vernacular and regional style. After independence political and regional movements started taking place, and it also showed in their different architectural developments. Hence all the aspects; political, economical, cultural influence each other. JJ School of Art and Architecture is pre-independence and follows old school of thought, School of Architecture – brought modernistic approach – Chandigarh – Bhubaneswar – planned city, post-independence British architects – continuity to the old style – revivalist style, architects trying to give new identity to India – modernist approach – perhaps an identity crisis—a dilemma whether to flow with the glory of the past or move forward with times using new ideas – techniques – Kahn, Corbusier and their disciples. The course is going to look at all such aspects which have been the reason of development of India architecturally.</p> <p>Faculty: Design</p> <p>Program: PG</p> <p>Prerequisites: Students currently registered in semester VII in a UG program at FA, FD, PG students at FA , FD</p> <p>Time: 16.30-18.30</p> <p>Days: Monday</p> <p>..... ....</p> <p>2529 - History and Theory-II</p> <p>Credits: 3</p> <p>Type: Research Seminar</p>	<p>Instructor/s: Snehal Shah</p> <p>After the invasion of Islam in India and subsequent spread of the religion, the Hindu architectural activities stopped for some centuries. However, around 1400 AD onwards, the renaissance of Hindu Temple architecture takes place. The main emphasis is the development of Provincial Style of Islamic Architecture. The course covers both these religions and their architectural expressions. In India, during this period, in the area of Muslim rule, the major style that evolved was based on the regional prevalent architectural traditions. They are neither Hindu nor Islamic, and hence, also known as "Provincial Styles". The main objective of the course is to explore and understand architecture of Gujarat Province, with Ahmedabad as the focal point. Other significant provinces are also mentioned, e.g. Bengal, Deccan, Jaunpur, Malwa, Khandesh, Kashmir and Sind.</p> <p>Faculty: Design</p> <p>Program: PG</p> <p>Prerequisites: Students who have cleared '2521 History &amp; Theory -I'</p> <p>Time: 10.30-13.30</p> <p>Days: Monday</p> <p>..... ....</p> <p>4020 - Urban History - 2</p> <p>Credits: 3</p> <p>Type: Lecture</p> <p>Instructor/s: Rutul Joshi, Renu Desai</p> <p>The principal aim of the urban history course is to prepare students to analytically understand various processes and factors that have shaped built form and settlement patterns. It focuses on urban history from the 19th century to the early 21st century covering modern and contemporary debates related to settlements across the world.</p> <p>Faculty: Planning</p> <p>Program: UG</p> <p>Prerequisites: Open for all PG students &amp; UG students from 2nd year onwards</p> <p>Time: 08.30-10.30</p>	<p>Days: Thursday</p> <p>..... ....</p> <p>4024 - Planning Theory - 2 (Urbanization Theories, &amp; Planning Processes)</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Anil Roy</p> <p>This course aims to bring in conceptual understanding of the meaning urban, urbanism, and the process of urbanization with reference to the third world countries. The theories of urban and regional planning will form larger discussion. The planning process both for the urban and rural areas are different, hence these differences and overlaps will become core area of learning through this course.</p> <p>Faculty: Planning</p> <p>Program: UG</p> <p>Prerequisites: Only for B Plan students</p> <p>Time: 08.30-10.30</p> <p>Days: Monday</p> <p>..... ....</p> <p>4026 - Urban Renewal and Conservation</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Anjali Kadam</p> <p>This seminar course attempts to improve understanding of the unique conditions in a historic city. The course identifies different perspectives to address transformations and decay in historic cities. It would look at methods for assessing the built fabric, the existing legislative and financial tools. The different strategies adopted would be discussed through case studies.</p> <p>Faculty: Planning</p> <p>Program: UG</p> <p>Prerequisites: Only for B Plan students</p> <p>Time: 08.30-10.30</p>
---	--	---

Days: Tuesday

.....  
....

**4027 - Urban Governance and Planning**

Credits: 2

Type: Lecture

Instructor/s: Vanishree Herlekar

The principal objective of the course is to discuss the linkages between governance and planning, and highlight the importance of good governance policy and practice in achieving planning objectives of urban sustainability, efficiency and inclusiveness in rapidly urbanizing economies like India. The course will discuss citizenship, governance, government and the concept of state; linkages between good governance, public administration and planning; public administration and governance theories; linkages between human rights, development and governance; the evolution and constitutional basis of local governance in India; the existing institutional structures,

rigidities and bottlenecks; rapid urbanization, globalization and governance challenges; decentralization, urban renewal and governance reforms in India; neo liberal imperatives and the role of public, private and civil society in local governance. The pedagogy emphasizes critical discourses and discussions, through lectures, seminar papers, case presentations and institutional assessments of local bodies.

Faculty: Planning

Program: UG

Prerequisites: Only for B Plan students

Time: 14.30-16.30

Days: Wednesday

.....  
....

# Housing

---

4508 - Fundamentals of Housing

Faculty: Planning

Program: PG

Credits: 2

Program: PG

Prerequisites: MURP students

Type: Lecture

Prerequisites: All PG students

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

Instructor/s: Darshini Mahadevia

Time: 08.30-10.30

Days: Monday, Wednesday, Thursday, Friday

This lecture course provides housing students with an understanding of basic issues relevant to housing such as concept of housing, housing economics (demand and supply), housing stress, and measuring housing shortage. The course will also introduce students to housing finance, institutions of finance and calculations of EMI. Lastly, it will introduce students to informal housing and incremental housing. It will also address historical review of housing policies globally and in India.

Days: Friday

4580 - Housing and Community Development

Credits: 2

Type: Lecture

Faculty: Planning

Instructor/s: Ravi Sannabhadti, Bhuvana S.

Program: PG

"Housing", "community development" and "livelihoods" are seemingly disparate themes. This course seeks to explore and develop an understanding of the inter-relationship between these and challenges involved in the process. The pedagogy would rely on case study method with a particular focus on informal housing.

Prerequisites: Basic course in economics & Bachelors students 4th year onwards

Time: 14.30-16.30

Days: Tuesday

Faculty: Planning

Program: PG

4511 - Land Development and Management Practices

Prerequisites: All PG students

Credits: 2

Time: 16.30-18.30

Type: Lecture

Days: Monday

Instructor/s: Madhu Bharti

The objective of this lecture course is to introduce the students to various land development concerns and processes. The course focuses on the Land development mechanism, process and tools as are used in India. The course would also focus on land laws and regulations, specifically those having impact on real estate development. The students would be exposed to various models of land development in developed as well as emerging economies. By the end of the course the students are expected to develop a critical understanding of various land development tools. This course will have case studies from India and elsewhere.

4584 - Housing Strategy

Credits: 9

Type: Studio

Instructor/s: Vanishree Herlekar

This component will work out housing strategy for the main development plan of the city/town.

Faculty: Planning

# Humanities

1036 - Humanities I: Introduction to Culture and Society

Credits: 2

Type: Lecture

Instructor/s: Madhavi Desai

This course will explore buildings as cultural and social entities. Different buildings in Ahmedabad will be studied in terms of function, ways of making, tectonics/ aesthetic, and memory as the ways in which they become part of and define Amdavadi cultural and society. Students are expected to do some fieldwork, readings and presentations during the course.

Faculty: Architecture

Program: UG

Prerequisites: Should be a registered student of FA-UG

Time: 14.30-16.30

Days: Monday

1043 - Humanities 3 : The Scientific World View

Credits: 2

Type: Lecture

Instructor/s: Sonal Mehta

This course explores the scientific worldview as the dominant way of thinking that has influenced much of human endeavour in modern history, particularly in the twentieth century. The course may explore key shifts in arts and sciences, modernism, colonialism and technological visions of world, making in the past hundred years. It is particularly important to stress the similarity in philosophical underpinnings in these disciplines and developments.

Faculty: Architecture

Program: UG

Prerequisites: Open for all

Time: 08.30-10.30

Days: Wednesday

1080 - Humanities 4: Politics, Economics, Globalization

Credits: 2

Type: Lecture

Instructor/s: Persis Ginwala

In this course, students will actively discuss issues globalization as a phenomenon and its impact on politics, economics and society in general. Using various examples in the Indian context, complex issues related to the workings of society will be debated. Assessment will be based primarily on assignments and presentations.

Faculty: Architecture

Program: UG

Prerequisites: Open for all PG students as well as UG students from 4th year onwards

Time: 14.30-16.30

Days: Tuesday

1086 - Place Making in Urban India

Credits: 2

Type: Workshop

Instructor/s: Gauri Bharat, Priyanka Kanhare (TA)

This course will focus on roadside shrines as a lens for investigating the nature of place making in urban India. Roadside shrines will be studied in order to understand how and why places become significant to people. By examining the genesis and transformation of shrines and their context, students will develop a nuanced understanding of processes of place making. Students are expected to travel to various parts of Ahmedabad as part of this course. The final requirement is a public exhibition about shrines as places of significance within the landscape of Ahmedabad.

Faculty: Architecture

Program: UG

Prerequisites: Should be a FA UG registered student

Time: 14.30-18.30

Days: Wednesday

1587 - Practising Social Spaces

Credits: 2

Type: Seminar

Instructor/s: Mehrnaz Amiraslani

In our modern lifestyles digital space and social media is increasingly taking over physical spaces of socializing. Questioning the existing state of urban common spaces, this course is concerned with social production of space. To sensitize the students towards inter-relationship between space and society, the focus is on physical, tangible spaces of interaction and civic engagement, to observe and study them empirically. Students will go through late 20th century theorists works followed by city walks to help them relate their learnings with everyday life engagements. We will study the ways in which citizens fit the city to their needs and create new meanings and conclude by place-making exercise informed by this study.

Faculty: Architecture

Program: PG

Prerequisites: None

Time: 16.30-18.30

Days: Friday

2084 - Behavioral Science

Credits: 2

Type: Seminar

Instructor/s: Gautam Shah

Human behaviour is evident in responses related to: Body, Environment, Space and the Occupants. The human behaviour is seen through body-limb movements or postures,

gestures, and as overt expressions in modes like speaking, writings, painting, etc as in expression and communication. Physiological components of behavior show up in survival, health, well being and comfort, spatial occupation with dimensional accommodation and fitment of the human-body, task functionality. Human behaviour sensed through Cognition, Psychological factors, Sensorial perception, Response mechanisms. Environmental responses are of becoming aware of a space. These permeate into a space depending on the spatial characteristics, such as the size, shape, sequencing, quality of barriers, etc. Space is the setting where environment and cognition actualize concurrently. Nature of cognition is one major factor that governs the Space experience. Environment is continually variable and so a space experience is ever expounding. Some environmental conditions and spatial features often occur in concert. And so we expect the presence of one to trigger the other. Occupants for cultural reasons or social norms show varied behaviour. It is also affected by factors like age, sex, level of adaptation, familiarity, limb capacity, body-limb coordination, sensorial abilities and reach extension tools, etc. Behavior (even of lone beings) is substantially in the context of 'awareness' of other human beings (and not necessarily the physical presence). Forms of interpersonal relationships of various races and cultures are different. The space, environment and the occupants together foster a social-contact mechanism.

Faculty: Design

Program: UG

Prerequisites: Students who have registered for Studio - V from Faculty of Design are eligible for the course

Time: 08.30-10.30

Days: Friday

.....  
 ....

**2531 - Meaning and Design**

Credits: 2

Type: Lecture

Instructor/s: Sharmila Sagara, Seema Khanwalkar, Kishore Budha

This course is aimed at introducing designers, design managers, design strategists, commissioners of design, critics, and others to the role of meaning in design. Meaning is central to the creation of material and immaterial artefacts, products, services and processes. It helps users in making sense of them. Meaning is situated and made in cultural contexts. This course will introduce students to the underlying principles, theories, methodologies and design processes through which the relationship between artefacts and their meanings can be conceived, created and critiqued. Thus, the course will a) locate meaning in design thinking. b) locate the relationship between people, cultures and artefacts. c) locate the role of artefacts in shaping, conveying and transforming meaning. d) locate the role of artefacts and their meanings in articulation of the human self. e) locate the processes by which humans negotiate meaning

Faculty: Design

Program: PG

Prerequisites: Students with inclination for research, engagement and critique of theory, and creative application. Some understanding and experience of designing, commissioning design, or critiquing design. Attendance, reading, and consistent involvement required.

Time: 08.30-10.30, 08.30-10.30

Days: Wednesday, Friday

.....  
 ....

**2532 - Idea- Metaphysics, Manifestation and Material**

Credits: 2

Type: Lecture

Instructor/s: Sharmila Sagara

A creative process in visual arts and other creative disciplines involve many stages. Beginning from a simple idea how it is formed and translated in material to be communicated to the audience is a course that involves this study based on understanding of how creative process works. This course will introduce students to a thought process that allows an idea to manifest in material in highlight of creative stages, negotiations, correspondence etc. Through this course students will also be able to understand and analyse inner world

and out reality with the help of philosophical views of Indian and western philosophers. However the main focus will be on visual arts yet this course will include other creative processes of such as, an architect, a musician by inviting them as guest lecturers along with an artist.

Faculty: Design

Program: PG

Prerequisites: Open for all

Time: 08.30-10.30

Days: Wednesday

.....  
 ....



# Infrastructure

<p>4022 - Urban Infrastructure (Planning and Design)</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Saswat Bandyopadhyay, Subhrangsu Goswami, Tushar Bose</p> <p>This lecture course familiarizes students with basics of urban water supply, waste water management, sanitation and solid waste management. Through theoretical concepts and relevant cases, it highlights a range of technical, and institutional issues and options in urban water and sanitation planning and implementation.</p> <p>Faculty: Planning</p> <p>Program: UG</p> <p>Prerequisites: Only for B Plan students</p> <p>Time: 14.30-16.30</p> <p>Days: Tuesday</p> <p>..... ....</p>	<p>..... ....</p> <p>4517 - Transport Infrastructure Planning and Design - 1 (Optional core for even Infrastructure Planning Major)</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Abhijit Lokre</p> <p>This course presents students with a comprehensive overview of transport infrastructure planning and design. It focuses on street and intersection design, and the planning and design of infrastructure for easy mobility of pedestrians and cyclists. It covers all design and infrastructure aspects of city bus and BRT systems. It also deals with the design of terminals, depots, workshops, and turn-arounds.</p> <p>Faculty: Planning</p> <p>Program: PG</p> <p>Prerequisites: All PG students</p> <p>Time: 08.30-10.30</p> <p>Days: Thursday</p>	<p>construction, operation and management of any infrastructure and development project.</p> <p>Faculty: Planning</p> <p>Program: PG</p> <p>Prerequisites: FP (PG &amp; UG) FM (PG)</p> <p>Time: 16.30-18.30</p> <p>Days: Wednesday</p> <p>..... ....</p> <p>4585 - City Infrastructure Prioritization Studio</p> <p>Credits: 9</p> <p>Type: Studio</p> <p>Instructor/s: Saswat Bandyopadhyay</p> <p>City Infrastructure Planning involves several subsectors and institutions engaged in planning, designing, delivery and management of infrastructure services. This studio intends to develop a detailed understanding of how city level infrastructure planning norms and regulations, demand assessment and projects, prioritization of Infrastructure and Investment outlines. Participants will work in teams to deal with macro to micro as well as sectorial issues and develop an integrated perspective of City Infrastructure Planning.</p> <p>Faculty: Planning</p> <p>Program: PG</p> <p>Prerequisites: MURP students</p> <p>Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30</p> <p>Days: Monday, Wednesday, Thursday, Friday</p> <p>..... ....</p>
<p>4509 - Infrastructure Sub-Systems</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Neeru Bansal, Saswat Bandyopadhyay</p> <p>Infrastructure Planning deals with several sub-sectors. This course attempts to expose the students with knowledge base related to various sub-sectors which is relevant for planning and management. Specifically the course would cover major subsectors of infrastructure like Highways, railways, ports, gas, industrial infrastructure, SEZs &amp; SIRs, telecom &amp; E infrastructure etc.</p> <p>Faculty: Planning</p> <p>Program: PG</p> <p>Prerequisites: All PG students</p> <p>Time: 16.30-18.30</p> <p>Days: Tuesday</p>	<p>4530 - Environmental &amp; Social Safeguards in Infrastructure and Development Projects</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Subhrangsu Goswami</p> <p>There is a growing awareness that benefits of any infrastructure or development project should not be negated by externalities, particularly those caused by the environmental consequences of the project. Therefore the primary objective of this course is to provide required knowledge and skills to the students, to make them capable of developing environmental and social safeguards for infrastructure and development projects, so that the environmental and social impacts can be eliminated or minimized to acceptable level by integrating environmental and social aspects during planning, design,</p>	<p>4591 - Water Resource Modelling</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: S. S. Rao</p>

The theoretical aspects of the Water Resources is being taught in many engineering colleges, but the modern applications and the modelling techniques of the same are least dealt with. The modelling techniques are far more important and urgently required to deal with various practical aspects of water resources and their applications for the day to day tasks and project the effects of the same over the next 30 to 40 years. An attempt is made to develop a short course on Modelling in Water resources with maximum free software available globally and develop suitable models for practical purposes.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 16.30-18.30

Days: Thursday

.....  
....

# Landscape

1537 - Ecology

Credits: 2

Type: Lecture

Instructor/s: Deepa Maheshwari

Fundamentals of Ecology : ecosystems and their functioning - nature and characteristics; Components: biotic and abiotic, major types, the biosphere and its functioning. Ecological Processes: energy flow-energy source, food chains and trophic structure, ecological pyramids, biogeochemical cycles, evolution - variation and selection, speciation. Ecology of growth: regulation, limits to growth, carrying capacity. Ecological communities: spatial structure, ecological niche and species diversity, succession. Limiting factors and their operations: climatic and atmospheric factors, soils, biotic factors, interaction of factors. Ecosystem inertia and resilience. Ecological balance and survival thresholds. Ecological conditions of India, Eco systems and forest types of India. Human influences on ecosystems: historical overview, the rise of agriculture, civilizations, industrialization and concomitant urbanization, impacts on the environment: global perspective, national perspective - ecosystems of India: ecological issues.

Faculty: Architecture

Program: PG

Prerequisites: UG 4th year onwards, all PG students

Time: 14.30-16.30

Days: Monday

.....

....

1538 - Planting Design and Management

Credits: 2

Type: Lecture

Instructor/s: Deepa Maheshwari

Planting Design is to be studied in relation to the requirements of plant material in terms of soil, water quality and quantity, light intensity, temperature, ground water moisture, natural climatic factors particularly high & low

temperatures, rainfall pattern and distribution, fog, frost, wind etc. Introduction to ecology as the basis of planting design. Relationship of soil, texture and pH; Light intensity-quality and duration; temperature; water surface ground and atmospheric air quality; wind and microclimate as factors affecting growth of plants. Classification of plant material for various uses in landscape design; physical attributes of plant materials, use in landscape design (shape and form, structure, flower colour, foliage texture, size, habits, etc.) Criteria for selection of plant material for specific design applications. Regional geography and climate as factors affecting plant selection. Basic principles of planting design, maintenance and management as a factor in design with plants. Maintenance requirement of different categories of plant material, visual, aesthetic and functional considerations in planting design. Planting for visual effect, accent. Growth rate of plants as a criterion for plant choice for particular situations. Comparisons of advantages and disadvantages of fast, medium and slow growing trees. Concept of nurse planting. Creating conditions for plant establishment; planting and transplanting trees and shrubs. Role of plant material in improvement of environment, (e.g. soil conservation, modification of microclimate). Planting for shelter – windbreaks and shelter belts, planting for special purpose wind shelter, erosion control, wild life , land rehabilitation, the role of planting in watershed management. Design exercises in the urban, sub urban and rural context. The preparation of planting concepts and planting plans. Study of landscape values of plant material through planting design exercises.

Faculty: Architecture

Program: PG

Prerequisites: UG 4th year onwards, all PG students

Time: 14.30-16.30

Days: Friday

.....

....

1539 - Theory of Landscape Design

Credits: 2

Type: Lecture

Instructor/s: Anjali Jain

The profession of landscape design is rapidly evolving in the country, wherein its scope is being continuously modified and redefined. To articulate this discussion, the course will use instances from world landscape history, to demonstrate, & illustrate the relation between societal thought & the relation it has with the design manifestation. The lectures will be organized around two key sites (one western and one Indian). Students will be given a set of readings about both. It will also use these examples to allow an understanding of design evaluation. Myths, legends and nature (mythological gardens/gardens and context), sacred geographies, cultural tapestries, enclosure and prospect (Islamic garden making),Town versus country Villas/Sculpture park, Art/Nature (Italian villas/gardens) The garden as theatre (scientific foundations of gardening/French/baroque), Field and points, Parks and gardens (urban and suburban developments/garden cities),The 'English' (gardens) in India Maidans/Cities/Horticulture,The Modern garden ,Contemporary landscapes and directions.

Faculty: Architecture

Program: PG

Prerequisites: Only for MLA-MLD students.

Time: 08.30-10.30

Days: Thursday

.....

....

1542 - Introduction to Landscape Design

Credits: 2

Type: Lecture

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

This course introduces students to the fundamental elements and natural processes such as geology, soils, climate, hydrology, vegetation and fauna. Students will formulate and conduct site analysis to assess the natural layers of site as a part of larger regional context. This will focus on understanding the topography, principles for slope analysis, site grading, and

understanding of plant materials and their use in landscape. The subject will provide an overview of fundamentals of Landscape architecture as a discipline.

Faculty: Architecture

Program: PG

Prerequisites: Undergraduate students 5th semester onwards, all PG students

Time: 14.30-16.30

Days: Wednesday

.....

....

1589 - Thesis

Credits: 14

Type: Guided Research

Instructor/s: Deepa Maheshwari, Sandip Patil, Prabhakar B. Bhagwat, Divya Shah

Each student is required to select a topic for a thesis project, before end of third semester in consultation with faculty members. The thesis project as far as possible should not be only design oriented, but should demonstrate a research methodology. The project work must clearly present students' maturity in handling a project in a professional manner.

Faculty: Architecture

Program: PG

Prerequisites: Students who have cleared third semester '1568 Landscape Design' Studio III

Time:

Days:

.....

....

4029 - Landscape Planning & Design

Credits: 2

Type: Lecture

Instructor/s: Deepa Maheshwari, Sandip Patil

This subject will help students develop foundation in landscape planning through understanding of various natural processes, conceptualizing landscape elements and their application in site planning. This also outlines bases for understanding various scales of landscape spaces including urban open spaces, rural landscapes and principles of landscape planning and design.

Faculty: Planning

Program: UG

Prerequisites: Open for B Plan students as well as other UG students of 3rd year and above level & all PG students

Time: 08.30-10.30

Days: Friday

.....

....

5637 - GIS for Landscape Architecture

Credits: 3

Type: Lecture

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

Landscape Planning deals with the designing of public areas, structures and landmarks to achieve pre-defined ecological, environmental or aesthetic outcome. It is a multi-disciplinary field involving aspects of botany, horticulture, architecture, ecology, fine arts, industrial design, geology, earth sciences, geography and presenting spatial features in form of plans and maps. The variety of activities carried out under landscape planning includes designing of campuses and sites for public and private institutions, parks, botanical gardens, recreational facilities like golf courses and sports facilities, housing complexes etc. In order to achieve pre-defined outcome, the ecological, environmental or aesthetic aspects are assessed based upon the laid down criteria and constraints while designing the landscapes. Since Landscape Planning involves study, analysis and presentation of spatial data and a Geographic Information System (GIS) is very well capable of handling, combining, analyzing, viewing and presenting spatial data, this course will really be useful. Apart from this, a GIS is also able to address various design related aspects like normative analysis and suggesting prescriptive measures. Integration

of GIS with other technologies such as Remote Sensing (RS) and Global Positioning System (GPS) has been found useful in mapping the natural resources around the site to be developed and evaluating terrain and geological characteristics of the site. Currently GIS is also being used in the field of Landscape Planning. Numerous examples of designing of parks, botanical gardens, golf courses, industrial sites have been reported in which GIS has been used. Examples of using GIS for environmental or ecological sensitivity analysis of a site or a region have also been reported. The objective of the course is to motivate students to use RS and GIS technologies in Landscape Planning and make them aware of various analysis and presentation techniques to be used in carrying out Landscape Planning activities. After successfully completing this course, the students should have understanding of the following- • Remote Sensing data processing and analysis • GIS basics and concept and representation of spatial data • Knowledge of datasets required for Landscape Planning • Spatial data editing and joining spatial and attribute data tables • GIS database creation • Geo-Referencing RS data • Geo-Processing of spatial data • Hydrological data processing for Landscape Planning • Site suitability analysis for Landscape Planning • Spatial data presentation in form of maps, charts and 3-D views • Case Studies on Landscape Planning

Faculty: Technology

Program: PG

Prerequisites: Knowledge of Geology and Hydrology is required

Time: 15.30-16.30, 16.30-18.30

Days: Thursday, Friday

.....

....

# Language and Communication

1083 - Basic English

Credits: 2

Type: Workshop

Instructor/s: Neha Krishanakumar

This course is meant for students who have studied in schools where the medium of teaching was not English. As the name suggests it is a course that aims to make a student comfortable with the English language so that he or she can acquire basic English communication skills. The content here comprises of fundamentals of grammar (tenses, articles, prepositions etc.) and reading and writing exercises which aim at vocabulary enhancement and correct sentence construction.

Faculty: Architecture

Program: UG

Prerequisites: Open for all

Time: 08.30-10.30, 08.30-10.30

Days: Monday, Wednesday

2086 - How to Talk like a Designer

Credits: 2

Type: Seminar

Instructor/s: Henry Skupniewicz, Shrutie Tamboli

As designers, the most powerful tool in our arsenal is our ability to communicate complex ideas to various people. Discourse is the lifeblood of design, and it has its own language. As designers, the most powerful tool in our arsenal is our ability to communicate complex ideas to various people. Discourse is the lifeblood of design, and it has its own language. In this seminar, students will be pushed to openly talk about their thoughts on design. Through weekly readings, these personal notions will be grounded as learn the way designers and others talk about design and what they are passionate about. Participation is a must. All students are expected to be active, vocal members of every class -- no exceptions.

Faculty: Design

Program: UG

Prerequisites: Students who have cleared Basic Design - I from the Faculty of Design are eligible for the course

Time: 14.30-16.30

Days: Wednesday

2087 - Language and Literature

Credits: 2

Type: Lecture

Instructor/s: Hemang Desai

Language and literature is an introductory course in literature. It is a temporary stay in a place and the course is a literary travel in various cultures and civilisations. The course explores the phenomena of language with a focus on literature. It also introduces various forms of literature like the essay, the short story, poetry and the novel. The teaching method involves reading of the original texts and their analysis with stress on participatory approach. The course is an appreciation of the act of reading and its importance in the present times. The course does not expect a prior exposure to literature or language study.

Faculty: Design

Program: UG

Prerequisites: Open for all

Time: 08.30-10.30

Days: Wednesday

5061 - Communicative Language Training

Credits: 2

Type: Lecture

Instructor/s: Pervin Doctor

CLT refers to appropriate teaching where sentence formation or framing should be

proper. Teaching involves grammar, idiomatic expression, diction, economy and precision of language i.e. the sentences should be precise, and redundancy should be avoided. Ample illustrations and personal observations cited for a better reach out or understanding. Classroom activities encouraged. Slide shows and group discussions conducted. Communication involves a group hence the needs of the group will be taken into consideration. In a group we need language for presenting plans, information interchange, expressing feelings, desires and moods. Communication takes place despite errors in language. That does not mean that errors are allowed.

Faculty: Technology

Program: UG

Prerequisites: Open to all

Time: 16.30-18.30

Days: Wednesday

1076 - English Communication

Credits: 2

Type: Lecture

Instructor/s: Neha Krishanakumar

This course is meant for students who possess basic English skills and wish to enhance their ability of communicating within the domain of the language. There shall be reading and writing exercises in each class which shall aim at augmenting the ability to express and communicate in different contexts of usage of English. Fundamentals of grammar shall not be a part of this course.

Faculty: Architecture

Program: UG

Prerequisites: Open for students with basic English language skills

Time: 08.30-10.30

Days: Tuesday

# Management

2082 - Professional Practice: Estimation and Contracts	Program: PG	Type: Studio
Credits: 2	Prerequisites: None.	Instructor/s: R I Shah, Mercy Samuel, Ravikant Joshi, Shelly Kulshrestha (AA), Darshana Rawal, Manvita Baradi
Type: Lecture	Time: 16.30-18.30	The studio will systematically guide the students into developing a framework for preparing a operations management plan. The exercise will strengthen skills of developing strategies, methods and implementation tools for managing complex urban systems. Students will develop sector specific management plans with focus on operation, maintenance and finance. The process will involve assessment of the organization and individual roles, level of service, risks and resources involved, customer satisfaction and other aspects influencing service delivery.
Instructor/s: Ramesh Patel	Days: Friday	Faculty: Management
This course introduces the different Tender Formats and expose students to practices of Cost Estimation of design and formulation of Work Contracts.	.....	Program: PG
Faculty: Design	3007 - Human Resource Management	Prerequisites: Sem II MHM students
Program: UG	Credits: 2	Time: 10.30-13.30, 10.30-13.30, 10.30-13.30
Prerequisites: Students who have cleared Studio II from Faculty of Design are eligible for the course	Type: Lecture	Days: Monday, Wednesday, Friday
Time: 08.30-10.30	Instructor/s: Margie Parikh	.....
Days: Thursday	This course aims to sensitize the students to the importance of Human Resource Management (HRM) as well as employment laws in work organizations of different types. While the general focus of the course could be the organizations in the public sector, the emphasis is on facilitating exploration of improving HR processes and practices for more effective management. Anyone who successfully completes this course will be able to: a) Understand the sub-processes of Human Resource Management b) Develop basic skills in specific HR activities such as HR Planning, Recruitment and Selection, Training and Development, Performance Management and Employee Retention c) With the help of a field study, apply classroom learning to a functioning organization and develop more specific understanding of HR issues relevant to that organization. The course is taught through lectures and discussion, case studies, field study, problem-solving and role-plays.	3026 - Financial Management and Public Finance
.....	Faculty: Management	Credits: 3
3006 - Practical Governmental Ethics	Program: PG	Type: Lecture
Credits: 1	Prerequisites: PG students with exposure to at least one course in management during previous semesters	Instructor/s: Bala Bhaskaran, Ravikant Joshi
Type: Lecture	Time: 14.30-16.30	The course is divided into 2 modules. Module1: Financial Management Module 2: Public Finance Module 1: Financial Management: The domain of financial management offers a set of decision-making tools which are of relevance to every professional in every field. For instance a Project Manager can use some of the decision-making tools in deciding the feasibility of a project. Similarly architects and designers need to know the tools of financial management for successfully running the business. From this viewpoint it is essential that professionals in every field acquire some basic skills in financial management. The course objective is to sensitize the participants of the course to the basic functions of financial management, how it differs from financial accounting, management accounting etc., the
Instructor/s: Scot Wrighton	Days: Tuesday	.....
Course includes a discussion of those principles, values and practices promoting public trust in government, such as respect, fairness, transparency, stewardship of the perquisites of office, avoiding conflicts-of-interest, using public office for personal gain, and creating an environment of integrity in policy-making and service delivery. Students will learn the role and application of codes-of-ethics, the influence of lobbying and whistle-blowing on government ethics, the difference between personal and professional ethics, processes for ensuring procurement probity, how to develop and implement ethics-based internal control systems, and whether cultural differences exist in what constitutes 'ethical government'. Course makes extensive use of cases studies, discussion groups, and short assignments so students master practical strategies for making government workplaces more ethical.	.....	3025 - Ward Management Plan Studio
Faculty: Management	3025 - Ward Management Plan Studio	Credits: 6
	Credits: 6	

basic concepts and methodologies of the financial management domain and explore the decision-making process, be able to appreciate the financial implications of any organisational situation/scenario. Module 2: Public Finance: The course will equip the students to understand fundamentals of urban finance in context of urban local governments. The focus will be on areas of mobilization of resources including taxes, user charges, inter-governmental finance as well as innovative sources of financing urban infrastructure such as accessing capital market for equity and debt, PPPs and social impact investing. Students will also learn about effective and efficient allocation of resources through local level budgeting, financial planning and management.

Faculty: Management

Program: PG

Prerequisites: All PG students

Time: 14.30-17.30

Days: Monday

3027 - Insights on Strategy and Marketing

Credits: 3

Type: Lecture

Instructor/s: C. Gopalakrishnan, Mercy Samuel

Module 1: Strategic Management: This course focuses on identifying and understanding the source of superior performance of an organisation. The course will introduce theoretical concept and frameworks useful for analysing the internal and external environment, guiding the formulation and execution of different types of strategies to achieve sustainable advantage in the volatile competitive environment. Module 2: Marketing in Public Sector. The course talks about the role of marketing in improving the performance of Public Agencies. It focuses on the marketing tools currently employed in the private realm to most benefit the public sector. The course will equip the students with all the marketing fundamentals as also interesting stories of how these tools were employed in different

Program: PG

Prerequisites: UG 3rd year onwards

Time: 14.30-17.30

Days: Thursday

3028 - Accounting Basics

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: PG

Prerequisites: None.

Time: 16.30-18.30

Days: Thursday

3029 - Introduction to e-Governance & m-Governance

Credits: 2

Type: Lecture

Instructor/s: Gayatri Doctor

Transparent (SMART) governance. The Course is made of four modules which include some basic ICT & e-governance concepts, the National e-Governance Plan (NeGP), e-governance initiatives in India, e-governance initiatives in Gujarat and m-governance initiatives. Lectures are based on case studies, with presentations & assignment based evaluation.

Faculty: Management

Program: PG

Prerequisites: MHM students and UG 3rd year onwards

Time: 16.30-18.30

Days: Tuesday

3030 - Project Finance

Credits: 2

Type: Lecture

Instructor/s: Rajnikant Patel

This course proposes to give insights into the genesis, process and whole cycle of financing of a project be it a Production unit, High-tech start-up firm, Mega Technology or Infrastructure Project. Therefore the course views the whole strata of Financing of Projects in two different modes a) Owners capital and equity b) Debt funding in different forms. All entrepreneurs face challenge with several questions like how much money can and should be raised; when should it be raised and from whom; what is a reasonable valuation of the company; and how funding should be structured. It aims to address such issues in the domain of finance by examining elements of entrepreneurial finance.

Faculty: Management

Program: PG

Prerequisites: UG 3rd year onwards

Time: 14.30-16.30

Days: Wednesday

<p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Padmin Buch</p> <p>IPR is mainly in the form of Patents, Trademarks, Design registration, Copy Rights and Geographical Indications (GI). IPR would give ownership rights. The course will essentially cover all these five major forms of IPR as mentioned above. It would also include IPR framework of important countries and its impact on Indian business. While covering the basic concepts and procedures, it would also focus on practical and strategic implications for the business, industry and the economy as a whole. The pedagogy would be a judicious combination of concepts and case studies.</p> <p>Faculty: Management</p> <p>Program: PG</p> <p>Prerequisites: UG 4th year onwards</p> <p>Time: 14.30-16.30</p> <p>Days: Friday</p> <p>.....</p> <p>.....</p> <p>3033 - Community Based Management of Human Settlements: Participatory Approach &amp; Framework</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Vivek Rawal</p> <p>Participatory approach and framework consist of defining, prioritizing, implementing and managing human settlements with active engagement of the community. For cities to be inclusive and vibrant, engagement of the community particularly the poor and vulnerable is essential. This course will focus on developing necessary appreciation, orientation, understanding and skills of the students for creating and facilitating enabling environment for community participation. The course will introduce students to participatory approach and framework and cover - i) theoretical foundation for a participatory approach; ii) tools and methodologies for community participation; and iii) case studies and experiences.</p> <p>Faculty: Management</p> <p>Program: PG</p>	<p>Prerequisites: UG 3rd year onwards</p> <p>Time: 16.30-18.30</p> <p>Days: Monday</p> <p>.....</p> <p>.....</p> <p>3034 - Materials &amp; Technologies: Lessons From Traditions</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Nimish Patel</p> <p>This course will attempt to expose the participant to the importance of vision in decision making in all aspects &amp; scales of a settlements in western India. It will also cover how these decisions were applied in the making of the built environments, which have survived over centuries of development, and continue to be more sustainable in their performance in comparison to the contemporary built environments. During the course, the faculty will share the explorations, experiences, experiments, and understanding of the subject, from his 35 years old design practice. The dissemination of the knowledge will be through talks, presentations &amp; ensuing discussions. The 'Takeaway' of this elective will be a greater understanding of the making of the built environment of India, and a glimpse of how the local problems were addressed and resolved through local solutions, using local resources.</p> <p>Faculty: Management</p> <p>Program: PG</p> <p>Prerequisites: UG 3rd year onwards</p> <p>Time: 16.30-18.30</p> <p>Days: Wednesday</p> <p>.....</p> <p>.....</p> <p>3035 - Gender and the City</p> <p>Credits: 2</p> <p>Type: Seminar</p> <p>Instructor/s: Madhavi Desai, Manvita Baradi</p> <p>This course will examine the consequences of women's and men's urban experiences with a focus on the city as a gendered space. It will</p>	<p>analyse selected urban aspects that make-up the physicality and governance of the city, including topics such as public transport, toilets, parks and other amenities, besides policies that enable more equitable civic engagement. There will be pre-assigned readings/</p> <p>Faculty: Management</p> <p>Program: PG</p> <p>Prerequisites: Open for all.</p> <p>Time: 14.30-16.30</p> <p>Days: Thursday</p> <p>.....</p> <p>.....</p> <p>4028 - Project Formulation, Appraisal and Management</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Chandrima Mukhopadhyay</p> <p>The objective of the course is to discuss the concept of projects, importance of project identification and formulation, appraisal and management; stages of project from network analysis; CPM, PERT, resource levelling and allocation. It covers introduction to concepts of detailed project report, and feasibility studies and techniques of financial appraisal. Techniques of project evaluation would cover financial cost-benefit analysis, social-cost benefit analysis through case studies in urban and regional development projects.</p> <p>Faculty: Planning</p> <p>Program: UG</p> <p>Prerequisites: Only for B Plan students</p> <p>Time: 08.30-10.30</p> <p>Days: Wednesday</p> <p>.....</p> <p>.....</p> <p>5031 - Disaster Management</p> <p>Credits: 3</p> <p>Type: Lecture</p> <p>Instructor/s: Bharat Patel</p>
--	---	---



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: UG

Prerequisites: Open to all

Time: 16.30-19.30

Days: Monday

.....  
....

### 5051 - Advanced Quantity Surveying & Valuation

Credits: 4

Type: Studio

Instructor/s: Devanshu Pandit, Bhargav Tewar, Reshma Shah

To train students to prepare bills of quantities, detailed estimate, specifications of materials and analyse rates for residential projects. To impart understanding of basic principles of valuation and valuation process as a whole.

Faculty: Technology

Program: UG

Prerequisites: Clearance of Field Studies and Quantity Surveying & Specifications

Time: 10.30-13.30, 10.30-13.30

Days: Wednesday, Thursday

.....  
....

### 5103 - Concepts of Real Estate and Valuation

To impart understanding of basic principles: valuation and valuation process as a whole

Faculty: Technology

Program: UG

Prerequisites: 3rd year & above from any Faculty

Time: 15.30-17.30

Days: Tuesday

.....  
....

# Policy and Legislation

---

4525 - Environmental Legislations,  
Administration and Governance

Prerequisites: PG (FP and FM) and 3rd and  
4th year B. Plan students

Time: 08.30-10.30

Credits: 2

Type: Lecture

Instructor/s: C.N. Ray

Days: Monday

This lecture course provides students with basic knowledge and approaches on rules and regulations related to environment from both international and national perspectives. The initial part of the course covers various legislation like Water Act, Air Act, and EP Act, and then illustrates their implementation through known environmental cases. The course also familiarizes participants with the administrative structure, and roles and powers, of various organizations and environmental institutions working in the environmental field.

.....  
....

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 08.30-10.30

Days: Wednesday

.....  
....

4589 - Metropolitan Governance

Credits: 2

Type: Lecture

Instructor/s: Chandrima Mukhopadhyay

Students will learn about theoretical concepts on metropolitan governance, including debates on conflict, cooperation and competition, and models like institutional collective action. In the second module, students will look into the practice of metropolitan governance across countries like the North America, Europe, Latin America, South Africa and Asian countries. The third module covers and elaborates on specific examples in the Indian context.

Faculty: Planning

Program: PG

# Practice

1046 - Professional Practice	..... ....	Days: Tuesday
Credits: 3		
Type: Lecture	2047 - Office Training	..... ....
Instructor/s: Parth Shah	Credits: 20	2082 - Professional Practice: Estimation and Contracts
This course deals with the understanding of the nature of building specifications and contracts and its relevance to architectural practice. The nature and type of building specifications and its implications on quality and certification of the building is discussed. The various types of building contracts and their impact on the design and execution of projects, tendering procedures, obligations of the client, consultant and the architect are also discussed in this course.	Type: Internship	Credits: 2
Faculty: Architecture	Instructor/s: Snehal Nagarsheth, Kireet Patel	Type: Lecture
Program: UG	This course is taken in various approved offices where the student will work as an intern.	Instructor/s: Ramesh Patel
Prerequisites: Mandatory for FA UG only	Faculty: Design	This course introduces the different Tender Formats and expose students to practices of Cost Estimation of design and formulation of Work Contracts.
Time: 14.30-17.30	Program: UG	Faculty: Design
Days: Thursday	Prerequisites: Students who have cleared Studio-IV and Interior Construction Drawing-1&2	Program: UG
..... ....	Time:	Prerequisites: Students who have cleared Studio II from Faculty of Design are eligible for the course
	Days:	Time: 08.30-10.30
	..... ....	Days: Thursday
	2050 - Renovation & Alteration	..... ....
1050 - Office Training	Credits: 2	
Credits: 20	Type: Lecture	4035 - Introduction to Climate Change
Type: Internship	Instructor/s: Poonam Jolly	Credits: 2
Instructor/s: Vishwanath Kashikar	This course is conducted in two modules. The first module deals with developing a theoretical understanding of the different structural systems and the possibilities of change within these systems. The second module addresses the procedural aspects of renovation and alteration. It will involve understanding the phases of planning, management and execution vis-a-vis different kinds of structural changes. Site visits will be an integral part of the course.	Type: Lecture
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: Design	Instructor/s: Ashwani Kumar
Faculty: Architecture	Program: UG	Climate change has emerged as one of the most important and complex issues facing the world over the next century. Concentration of greenhouse gas emissions increased markedly during the past century due to human activities. Scientific evidence suggests that a continued increase in greenhouse-gas concentration is likely to have significant effects on the climate. Despite large uncertainties about the concrete impacts on the ecosystem, a global consensus exists that global climate change constitutes a serious potential threat. Against this background the course is an attempt to understand climate change-both from the scientific side which involves an understanding of the causal factors, the current status of the issue and use
Program: UG	Prerequisites: Students who have cleared Int. Design Studio - IV & Int. Const. Drg. - II are eligible for the course	
Prerequisites: Studio 6 Cleared	Time: 14.30-16.30	
Time:		
Days:		

<p>this knowledge to identify and prioritize possible solutions</p>	<p>resolution and negotiations, professional ethics, code of conduct and values. The modules will be: skills for professional engagement, skills related to conflict resolution and negotiations, ethics and code of conduct, and values such as social justice, environmental justice and spatial justice.</p>	<p>Program: PG</p>
<p>Faculty: Planning</p>	<p>Faculty: Planning</p>	<p>Prerequisites: PG students, mandatory for PG CEM</p>
<p>Program: UG</p>	<p>Program: UG</p>	<p>Time: 14.30-17.30</p>
<p>Prerequisites: Having some learning on basic sciences or atleast one course related to environment science, PHED etc</p>	<p>Prerequisites: Only for B Plan students</p>	<p>Days: Tuesday</p>
<p>Time: 16.30-18.30</p>	<p>Time: 14.30-16.30, 14.00-16.30, 14.30-16.30</p>	<p>..... ....</p>
<p>Days: Wednesday</p>	<p>Days: Monday, Wednesday, Friday</p>	<p>5536 - Construction Management-II</p>
<p>..... ....</p>	<p>..... ....</p>	<p>Credits: 6</p>
<p>4048 - Sociology in Practice</p>	<p>5049 - Field Studies</p>	<p>Type: Studio</p>
<p>Credits: 2</p>	<p>Credits: 3</p>	<p>Instructor/s: Ganesh Devkar, Jyoti Trivedi</p>
<p>Type: Lecture</p>	<p>Type: Workshop</p>	<p>The studio is extension of Construction Management-I which addresses the culture, principles, and techniques of constructions management. It consists of managing project life cycle phases of execution, project finalization and close-out of construction projects.</p>
<p>Instructor/s: Gaurang Jani</p>	<p>Instructor/s: Devanshu Pandit, Bhargav Tewar, Ajay Patel</p>	<p>Faculty: Technology</p>
<p>Sociology provides insights and imagination to understand human societies both historically and contemporary. As a member of plural society, we all need information and knowledge to sensitize ourselves. Sociological understanding creates enabling environment for healthy social relationship and process of social change. Sociology in practice course will enable design students to relate social realities with their concepts and imagination.</p>	<p>To study building activities on construction projects by periodic site visits to Load Bearing Structures. The field studies helps to reinforce the theory studied in the classroom in the relevant subjects - mainly structures, construction technology, building services and materials.</p>	<p>Program: PG</p>
<p>Faculty: Planning</p>	<p>Faculty: Technology</p>	<p>Prerequisites: PG students, Studio-I Construction Management-I, mandatory for PG CEM</p>
<p>Program: UG</p>	<p>Program: UG</p>	<p>Time: 10.30-13.30, 10.30-13.30</p>
<p>Prerequisites: Open for all</p>	<p>Prerequisites: Open to all</p>	<p>Days: Monday, Wednesday</p>
<p>Time: 16.30-18.30</p>	<p>Time: 08.30-10.30, 14.30-16.30, 08.30-17.30</p>	<p>..... ....</p>
<p>Days: Monday</p>	<p>Days: Monday, Monday, Friday</p>	<p>5612 - Infrastructure Finance</p>
<p>..... ....</p>	<p>..... ....</p>	<p>Credits: 2</p>
<p>4049 - Professional Practice (Land development legislations, Ethics &amp; Human Values , Communication skills, Project practice)</p>	<p>5533 - Construction Contracts</p>	<p>Type: Lecture</p>
<p>Credits: 3</p>	<p>Credits: 3</p>	<p>Instructor/s: Rajnikant Patel</p>
<p>Type: Lecture</p>	<p>Type: Lecture</p>	<p>The course is structured into interactive session covering all the essentials of finance in infrastructure projects. It will provide an exposure to innovative financing methods and its applicability and utility across industries.</p>
<p>Instructor/s: Saswat Bandopadhyay, C.N. Ray</p>	<p>Instructor/s: Ganesh Devkar, Jyoti Trivedi</p>	<p>Faculty: Technology</p>
<p>The objective of this course is to introduce to planners professional skills related to conflict</p>	<p>To expose the students to legal aspects of construction projects and to construction contracts administration.</p>	<p>Program: PG</p>
<p>..... ....</p>	<p>Faculty: Technology</p>	<p>Prerequisites: UG 4th year level onwards &amp; PG students</p>

Time: 14.30-16.30

Days: Monday

.....  
....

5613 - Fundamentals of Real Estate

Credits: 3

Type: Lecture

Instructor/s: Jigar Pandya

This course delivers the current scenario and issues in real estate construction sector. An introductory course intended to provide a foundation for understanding the workings and players in the real estate market.

Faculty: Technology

Program: PG

Prerequisites: UG 4th year level onwards, all PG students

Time: 16.30-19.30

Days: Wednesday

5615 - BIM for Construction

Credits: 3

Type: Lecture

Instructor/s: Jay Maniyar

Building Information Modelling (BIM) is emerging as the industry standard approach to the design, analysis, and management of project life cycle, from design and construction to maintenance and demolition. However, lack of education, skills and professionals are cited amongst the major obstacles for the adoption of BIM as a collaborative platform in the industry. This course aims to respond to this challenge and opportunity, and seeks to offer education and skills in BIM to critically engaged design, construction and built environment professionals.

Faculty: Technology

Program: PG

Prerequisites: UG 4th year level onwards, all PG students

Time: 14.30-16.00, 14.30-16.00

Days: Thursday, Friday

.....  
....

5616 - Lean Principles for Construction

Credits: 2

Type: Lecture

Instructor/s: Nimit Karia

The course covers the philosophies and principles of Lean Construction. The course sets out from a set of principles and techniques that aim at making construction more effective and quality conscious. It deals with a business philosophy and a strategic thinking that involves companies and organizations as well as various inter-organizational collaborations and alliances. With reference to best practice the course lays the foundation of a new approach to promote efficiency in construction.

Faculty: Technology

Program: PG

Prerequisites: UG 4th Year level onwards, all PG students

Time: 17.30-19.30

Days: Tuesday

# Research

1588 - Capstone Project	Credits: 4	Program: PG
Credits: 15	Type: Studio	Prerequisites: Students currently registered 1st year of MIAD, PhD in FA, FP
Type: Guided Research	Instructor/s: Munjal Bhatt , Sanyogita Manu	Time: 14.30-17.30
Instructor/s: Gauri Bharat	This course will build advanced capabilities for understanding the performance of and designing building components affecting building energy efficiency, such as envelope, systems and human behaviour. It will help students to understand the delicate balance and resultant trade-offs between the aforementioned components and passive and active strategies. Design exercises, surveys, measurements and experiments will be used as primary tools to meet the objectives of this course.	Days: Thursday
Indepent design, research or advocacy project pursued by student		.....
Faculty: Architecture		.....
Program: PG		2533 - Thesis
Prerequisites: Should have completed all previous studios required by the program		Credits: 15
Time:	Faculty: Design	Type: Guided Research
Days:	Program: PG	Instructor/s: Sanyogita Manu
.....	Prerequisites: Students who have cleared '2523 Building Energy Efficiency Studio'	Research
.....		Faculty: Design
2049 - Research Methods	Time: 10.30-13.30, 14.30-17.30	Program: PG
Credits: 2	Days: Friday, Friday	Prerequisites: Should have completed all previous studios required by the program
Type: Lecture	.....	Time:
Instructor/s: Kamalika Bose	.....	Days:
Introduction to approaches that aid towards developing a foundation towards research skills. Appropriate approaches to topic identification, methodologies, readings, data review and sourcing, structure, citation will provide a base for students approaching thesis.	2530 - Introduction to Research Design and Communication	.....
	Credits: 3	.....
	Type: Lecture	3032 - Capstone Project
	Instructor/s: Saket Sarraf, Sanyogita Manu, VF	Credits: 15
Faculty: Design	The course provides a primer to research design, methodology and communication for PG and Doctoral students. Research design deals with the process leading to knowledge creation and discovery starting from empirical findings. It is different from research methods which focuses on specific techniques used in the above process. It attempts to demystify the research process by providing overview of various approaches in a step by step format, along with implicit assumptions and warning against common pitfalls. The course is conducted in a lecture format with high expectations in terms of reading, class participation and weekly assignments.	Type: Guided Research
Program: UG		Instructor/s: Mercy Samuel
Prerequisites: Students who have registered for Studio - V from Faculty of Design are eligible for the course		Research
Time: 08.30-10.30		Faculty: Management
Days: Tuesday		Program: PG
.....		Prerequisites: Cleared all Three studios
.....		Time:
2515 - Advanced Building Energy Efficiency Studio	Faculty: Design	Days:
		.....
		.....

4597 - Thesis	Type: Guided Research	5628 - Dissertation (IED)
Credits: 15	Instructor/s: Jyoti Trivedi	Credits: 15
Type: Guided Research	Research Thesis programme to complement the practical work abilities of students & contribute to a higher professional competence and developing an attitude towards research.	Type: Guided Research
Instructor/s: Talat Munshi	Faculty: Technology	Instructor/s: Tushar Bose
Research	Program: PG	The objective of the dissertation is to study a topic of Student's choice within the realm of infrastructure (engineering design, planning, or management) in reasonable depth and write up a dissertation report at the end of it. The dissertation report will be of about 25,000–30,000 words.
Faculty: Planning	Prerequisites: Should have completed all previous studios required by the program	Faculty: Technology
Program: PG	Time:	Program: PG
Prerequisites: Should have completed all previous studios required by the program	Days:	Prerequisites: Should have completed all previous studios required by the program
Time:	.....	Time:
Days:	....	Days:
.....		.....
....		.....
5532 - Independent Study-I	5625 - Thesis (SED)	
Credits: 3	Credits: 15	
Type: Independent Study	Type: Guided Research	
Instructor/s: Ganesh Devkar, Jyoti Trivedi, P.V.Akalkotkar, Vivek Bhatt	Instructor/s: Aanal Shah, Dhara Shah	5638 - Thesis
The independent study 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.	Student independently takes up one topic which might be analytical, software based, experimental or History. Students will give literature review of the topic identified. A schedule is set wherein students will give two more reviews and then submit the document for the internal checking. The document will then go to the external examiner and final jury is arranged. The submission is in the form of document, soft copy, synopsis, poster and a technical paper	Credits: 15
Faculty: Technology	Faculty: Technology	Type: Guided Research
Program: PG	Program: PG	Instructor/s: Anjana Vyas
Prerequisites: PG students, mandatory for PG CEM	Prerequisites: Should have completed all previous studios required by the program	Research
Time: 14.30-15.30	Time:	Faculty: Technology
Days: Friday	Days:	Program: PG
.....	.....	Prerequisites: Should have completed all previous studios required by the program
....	.....	Time:
	.....	Days:
	.....	.....
5614 - Thesis		
Credits: 15		

# Science and Mathematics

---

1084 - Models of Morphology

Credits: 2

Type: Lecture

Instructor/s: Nitin Rajee

This course shall dwell on the mathematically derived theory of space syntax. This theory provides an approach to understand spatial configurations such as urban space and spaces in buildings from the perspective of social interactions between the inhabitants. The course will cover various aspects of the theory and its applications primarily in a lecture format.

Faculty: Architecture

Program: UG

Prerequisites: Open for all UG final year students and all PG students

Time: 08.30-10.30

Days: Monday

.....  
....

4021 - Statistics - 2 (with integration of spatial)

Credits: 2

Type: Lecture

Instructor/s: Ami Divetiya

This course offers statistics beyond introduction. It helps to develop better understanding about correlation and regression along with its practical applicability. Estimation and testing of hypothesis will help students making inferences about characteristics of populations from information contained in sample. Students will be able to test whether two or more than two population proportions can be considered equal or not with the help of t- test. They will be able to detect patterns of change over regular intervals of time and also estimate the patterns for future with the help of time series analysis.

Faculty: Planning

Program: UG

Prerequisites: Cleared Statistics-1 offered in last Spring Semester

Time: 10.30-12.30

Days: Thursday

5630 - Applications of Graph Theory

Credits: 3

Type: Lecture

Instructor/s: Jimmy Shethana

Description: Graph Theory is a delightful playground for the exploration of proof techniques in discrete mathematics, and its results have applications in many areas of computing, social and natural sciences. It has a wide range of applications in engineering and in physical sciences. This subject aims to emphasis on computational aspects of graph theory and algorithms. It will incorporate applications of graph theory with numerous illustrations, cross-references, and warm-up exercises that provide for in-depth understanding on computational aspects and algorithms for real time cases. Students will learn how to solve complex problems of networks of different types and analysis the results to arrive at a fair result.

Faculty: Technology

Program: PG

Prerequisites: Primary knowledge of Graph theory

Time: 16.30-19.30

Days: Monday

.....  
....



# Services and Advance Technology

---

1053 - Building Quantity and Costs

Faculty: Technology

Credits: 2

Program: UG

Type: Lecture

Prerequisites: Students who have completed V<sup>th</sup> semester from any Faculty

Instructor/s: Ajit Desai

Time: 16.30-19.30

This lecture based course is an introduction and overview of building cost estimation. The course will cover methods of estimation, taking of measurements, preparation of schedule of quantities, rate analysis of items of work, preparation of estimates and recapitulation, specifications in brief, principal material requirements and their co-relation to estimates

Days: Tuesday

.....  
.....

Faculty: Architecture

Program: UG

Prerequisites: Mandatory for FA UG only

Time: 08.30-10.30

Days: Friday

.....  
.....

5062 - Heating Ventilation and Air Conditioning

Credits: 3

Type: Lecture

Instructor/s: Ashutosh Shukla

HVAC, Heating Ventilation and Air-conditioning is essential for many industrial application like Pharmaceuticals, Textile, Power generation etc. Advantageous for the professionals involved in Designing, Planning and Construction of Buildings, to have basic knowledge of HVAC systems. This will help for, (1) Better coordination with HVAC consultants during project planning and execution. (2) Planning adequate space to install HVAC plants/equipments at suitable location. (3) To co-relate ducting and piping work along – with electrical work and other utilities. (4) To adopt Green building concept for saving energy while operating HVAC systems. (5) To know in detail regarding working of smart Buildings. (6) To have basic information for maintaining environment by global standards.

# Studio

<p>1015 - Architectural Design Studio 8</p> <p>Credits: 8</p> <p>Type: Studio</p> <p>Instructor/s: Sankalpa, Vicky Achnani, Nitin Raje, Milind Patel</p> <p>A choice of studios is offered in this course. The studios focus on developing an understanding of complex issues related to urban settings through projects varying from urban inserts, urban housing and institutional design. Students are exposed to multiple design methods and are expected to propose innovative yet contextual response to the given conditions.</p> <p>Faculty: Architecture</p> <p>Program: UG</p> <p>Prerequisites: Should have completed 22 weeks internship (Office training ) with an established Architect</p> <p>Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30</p> <p>Days: Monday, Wednesday, Thursday, Friday</p> <p>.....</p> <p>.....</p>	<p>1042 - Architectural Design Studio IV</p> <p>Credits: 6</p> <p>Type: Studio</p> <p>Instructor/s: Puneet Mehrotra, Alexandre D'Aram, Sachin Soni, Anjali Kadam</p> <p>This studio will deal with the dwelling environments of a small community, with a focus on the integration of cultural patterns and environmental characteristics in the process of developing an architectural form. It will introduce the ideas of type and typology through the study of correlation between climate-environmental parameters and social-cultural patterns as generators of an architectural space. Using field studies and analytical frameworks, It will explore these patterns at the level of the dwelling unit and the group of units through the analysis of site &amp; activity patterns, principles &amp; scales of grouping, and issues of appropriate building technology.</p> <p>Faculty: Architecture</p> <p>Program: UG</p> <p>Prerequisites: Should have cleared FA UG Studio II</p> <p>Time: 10.30-13.30, 10.30-13.30, 10.30-13.30</p> <p>Days: Monday, Wednesday, Friday</p> <p>.....</p> <p>.....</p>	<p>effective communication of production drawings.</p> <p>Faculty: Architecture</p> <p>Program: UG</p> <p>Prerequisites: Should have cleared FA UG studio IV</p> <p>Time: 10.30-13.30, 10.30-13.30, 10.30-13.30</p> <p>Days: Monday, Wednesday, Thursday</p> <p>1050 - Office Training</p> <p>Credits: 20</p> <p>Type: Internship</p> <p>Instructor/s: Vishwanath Kashikar</p> <p>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.</p> <p>Faculty: Architecture</p> <p>Program: UG</p> <p>Prerequisites: Studio 6 Cleared</p> <p>Time:</p> <p>Days:</p> <p>.....</p> <p>.....</p>
<p>1016 - Architectural Design Studio 9</p> <p>Credits: 8</p> <p>Type: Studio</p> <p>Instructor/s: Meghal Arya, Giulia Setti</p> <p>Students develop their own design projects in this course. The focus of the course is on individual development and maturity, ability to bring together various determinants into an integral whole, within defined design positions.</p> <p>Faculty: Architecture</p> <p>Program: UG</p> <p>Prerequisites: Should have completed FA-UG Studio VIII</p> <p>Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30</p> <p>Days: Monday, Wednesday, Thursday, Friday</p>	<p>1047 - Architectural Design Studio VI</p> <p>Credits: 6</p> <p>Type: Studio</p> <p>Instructor/s: Rathin Goghari, Parth Shah, Krishnakant Parmar</p> <p>The emphasis of this course is the role of construction in evolving architectural expression. The course will focus on design detail as vital part of architectural expression. Integration of building systems, clarity and</p>	<p>1077 - Studio II</p> <p>Credits: 6</p> <p>Type: Studio</p> <p>Instructor/s: Vishwanath Kashikar, Isha Talsania, Saptarshi Mitra, Freyaan Anklesaria</p> <p>This is a foundation year studio which prepares the students to tackle design projects at various scales. Students will be working on one design project throughout the semester. Multiple resolutions of the project will be expected based on specific design methods used to approach the same project in</p>

different ways. Students are expected to form smaller groups to exchange ideas emerging from the different design methods; however all projects will be done on an individual basis.

Faculty: Architecture

Program: UG

Prerequisites: Should be a registered student of FA-UG

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

Days: Monday, Wednesday, Friday

1540 - Landscape Design Studio – II MLA / MLD

Credits: 9

Type: Studio

Instructor/s: Bobby Sujansingani, Divya Shah, Ridhi Kapoor

The studio work shall deal with landscape design project which will be extended beyond the realm of design solutions to be integrated with various professional spheres simultaneously considering the specific situations and constraints provided by the studio faculty.

Faculty: Architecture

Program: PG

Prerequisites: Only for MLA-MLD II Semester students.

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

Days: Monday, Wednesday, Thursday

1574 - History, Theory and Criticism Studio - 1

Credits: 9

Type: Studio

Instructor/s: Gauri Bharat

This studio focuses on relationships between architecture and context by examining the resource, labour, information, and knowledge systems through which architecture is produced. Students will conduct ethnographies of construction sites/ architectural practices and visualize the

networks through which buildings are made. Students will identify one important theme/ idea underlying architectural production in Ahmedabad and develop a final exhibition.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio

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

Days: Monday, Wednesday, Friday

1577 - Architectural Design Studio - 1

Credits: 9

Type: Studio

Instructor/s: Gurjit Singh, Yatin Pandya, Aditya Patel

This advanced design studio focuses on critical interpretation of context and complexities of design development. Through design projects, students will address issues around contemporary urban conditions, engagement with technologies and more broadly, attempt to articulate the role of architects within the discipline and profession today.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio

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

Days: Monday, Wednesday, Friday

1581 - Urban Design Studio - I

Credits: 9

Type: Studio

Instructor/s: Brijesh Bhatha, Aparna Joshi, Rajiv Kadam, Purvi Bhatt

This studio focuses on the key issues and approaches to urban design through multiple design problems during the semester. These selected projects will often deal with urban issues existing in the city including urban projects under consideration by local governments. These selected projects shall have a mix of scales and complexity and will vary in the design goals and requirements. These projects will explore the design issues and approaches of urban place making, neighbourhood regeneration, street design, public transit and issues of urban housing.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio

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

Days: Monday, Wednesday, Friday

1583 - Conservation Studio - I

Credits: 9

Type: Studio

Instructor/s: Jigna Desai

The studio engages with a heritage site with high architectural value and follow processes of documentation, condition survey, building archaeology etc. to arrive at a conservation strategy for the structures on the site. The students will then go on to propose protection/ restoration/ reuse related interventions based on the debate of authenticity and sustainability

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio

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

Days: Monday, Wednesday, Friday

1589 - Thesis

Credits: 14

Type: Guided Research

Instructor/s: Deepa Maheshwari, Sandip Patil, Prabhakar B. Bhagwat, Divya Shah

Each student is required to select a topic for a thesis project, before end of third semester in consultation with faculty members. The thesis project as far as possible should not be only design oriented, but should demonstrate a research methodology. The project work must clearly present students' maturity in handling a project in a professional manner.

Faculty: Architecture

Program: PG

Prerequisites: Students who have cleared third semester '1568 Landscape Design' Studio III

Time:

Days:

.....  
....

**2038 - Interior Design Studio - II**

Credits: 6

Type: Studio

Instructor/s: Manisha Basu, Jay Thakkar, Kamalika Bose

This studio course involves generation of small-scale interior environment through research, analysis, conceptualization and design. The projects include exercises in spatial planning as a response to function. Exercise undertake organization of products/objects to explore circulation and transactions with material exploration. The emphasis is on interaction of individual to individual, individual to group and both to the products/objects within public domain. The students deal with real time situation of site and contextual responses.

Faculty: Design

Program: UG

Prerequisites: Students who have cleared Int. Design Studio - I from the Faculty of Design are eligible for the course.

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

Days: Monday, Wednesday, Friday

.....  
....

**2039 - Furniture Design - II**

Credits: 4

Type: Design Workshop

Instructor/s: Komal Dighe, Nikhil Aggarwal

This studio, through exercises and a design problem, attempts to understand the relationship of form, materials, space and development of dimensions in the design of furniture. A critical understanding of the evolution of form in furniture involving these specifics further develops the critical appreciation of furniture pieces.

Faculty: Design

Program: UG

Prerequisites: Students who have cleared Furniture Design - I from the Faculty of Design are eligible for the course.

Time: 14.30-17.30, 10.30-13.30

Days: Monday, Thursday

.....  
....

**2043 - Interior Design Studio - IV**

Credits: 6

Type: Studio

Instructor/s: Kireet Patel, Sanal Thathapuzha

This studio attempts to interpret the correlation of public place and the ideas of collective presence in a civic world. It focuses on understanding organizations of different types and development of language that is appropriate to the public realm. The projects rely on inputs that are site specific as well as based on generic understanding that define public life in question. The studio builds up to an understanding that questions the role of collective and generic on the one hand and individual behaviors on the other.

Faculty: Design

Program: UG

Prerequisites: Students who have cleared Interior Design Studio - III are eligible for the course

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

Days: Monday, Wednesday, Friday

.....  
....

**2047 - Office Training**

Credits: 20

Type: Internship

Instructor/s: Snehal Nagarsheth, Kireet Patel

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

Faculty: Design

Program: UG

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

Time:

Days:

.....  
....

**2048 - Interior Design Studio - V**

Credits: 6

Type: Studio

Instructor/s: Snehal Nagarsheth, Parantap Bhatt, Poonam Jolly

The intent of the studio is to explore interior design as a tool for reading and acting within sites of rich historic and cultural significance. Aimed at adaptively reusing the identified site/s, one recognizes the character-defining features and the multiple narratives of social and cultural history embedded within the physical fabric, review past and current patterns of use in the area, and work on a program based on economic and social needs, leading to an appropriate design intervention.

Faculty: Design

Program: UG

Prerequisites: Students who have cleared Interior Design Studio - IV from the Faculty of Design are eligible for the course

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

Days: Monday, Wednesday, Friday

..... ....	<b>Program:</b> PG	networks, street lights and signage. This lab is structured for students to know various elements of basic infrastructure facilities, the interactions within and amongst them, assessing and analysing the existing situation, its issues and opportunities and proceed to rationally create an optimal intervention / improvement plan.
<b>2074 - Basic Design-II</b>	<b>Prerequisites:</b> Students who have cleared '2523 Building Energy Efficiency Studio'	
<b>Credits:</b> 6	<b>Time:</b> 10.30-13.30, 14.30-17.30	
<b>Type:</b> Studio	<b>Days:</b> Friday, Friday	
<b>Instructor/s:</b> Krishna Shastri, Shruti Tamboli, Henry Skupniewicz, Rishav Jain, Aditi Vashisht	..... ....	<b>Faculty:</b> Planning
This studio discusses interior spaces and builtforms, understood through solid and void relationship. It will also focus on spatial, architectural and interior elements. It helps understanding of spatial relationships between architectural principles, elements and their systems, scale, light and movement. It explores relationship between spatial, architectural and interior elements and their impact on layouts and space planning relationships.	<b>3025 - Ward Management Plan Studio</b>	<b>Program:</b> UG
	<b>Credits:</b> 6	<b>Prerequisites:</b> Only for B Plan students
	<b>Type:</b> Studio	<b>Time:</b> 10.30-13.30, 10.30-13.30, 10.30-13.30
	<b>Instructor/s:</b> R I Shah, Mercy Samuel, Ravikant Joshi, Shelly Kulshrestha (AA), Darshana Rawal, Manvita Baradi	<b>Days:</b> Monday, Wednesday, Friday
	The studio will systematically guide the students into developing a framework for preparing a operations management plan. The exercise will strengthen skills of developing strategies, methods and implementation tools for managing complex urban systems. Students will develop sector specific management plans with focus on operation, maintenance and finance. The process will involve assessment of the organization and individual roles, level of service, risks and resources involved, customer satisfaction and other aspects influencing service delivery.	..... ....
<b>Faculty:</b> Design	<b>4030 - Urban Development Lab</b>	<b>Credits:</b> 6
<b>Program:</b> UG		<b>Type:</b> Studio
<b>Prerequisites:</b> Students who have cleared Basic Design - I from the Faculty of Design are eligible for the course	<b>Faculty:</b> Management	<b>Instructor/s:</b> Minal Pathak, Jignesh Mehta, Utkarsh Patel, Mansi Shah, Jennifer Pierce
<b>Time:</b> 10.30-13.30, 10.30-13.30, 10.30-13.30	<b>Program:</b> PG	Urban Development Studio focuses on preparing a development plan for a town in Gujarat while critically appraising its contemporary relevance. A typical development plan consists of land use strategies, transportation and infrastructure network development for the forthcoming twenty years with the objectives of strengthening the public realm and quality of life in an urban area.
<b>Days:</b> Monday, Wednesday, Friday	<b>Prerequisites:</b> Sem II MHM students	<b>Faculty:</b> Planning
..... ....	<b>Time:</b> 10.30-13.30, 10.30-13.30, 10.30-13.30	<b>Program:</b> UG
<b>2515 - Advanced Building Energy Efficiency Studio</b>	<b>Days:</b> Monday, Wednesday, Friday	<b>Prerequisites:</b> Only for B Plan Students
<b>Credits:</b> 4	..... ....	<b>Time:</b> 10.30-13.30, 10.30-13.30, 10.30-13.30
<b>Type:</b> Studio	<b>4023 - Infrastructure Planning Lab</b>	<b>Days:</b> Monday, Wednesday, Friday
<b>Instructor/s:</b> Munjal Bhatt, Sanyogita Manu	<b>Credits:</b> 6	..... ....
This course will build advanced capabilities for understanding the performance of and designing building components affecting building energy efficiency, such as envelope, systems and human behaviour. It will help students to understand the delicate balance and resultant trade-offs between the aforementioned components and passive and active strategies. Design exercises, surveys, measurements and experiments will be used as primary tools to meet the objectives of this course.	<b>Type:</b> Studio	<b>4583 - Land Use Planning Studio</b>
	<b>Instructor/s:</b> Neeru Bansal, Subhrangsu Goswami, VF	<b>Credits:</b> 9
	This lab will focus on planning and delivery of basic infrastructure facilities at ward level and its integration with the larger plan. The infrastructure components covered include water supply, sewerage and storm water systems, solid waste management, road	<b>Type:</b> Studio
<b>Faculty:</b> Design		<b>Instructor/s:</b> Bimal Patel, Sejal Patel, Rutool Sharma, Talat Munshi, Bhargav Adhvaryu, Vatsal Patel

Urban development plan studio intends to enable a planner to understand, interpret, diagnose and plan built environment at the scale of a city/ town/ settlement. The lab thus intends to introduce interpretation and representation tools, methods to develop criteria to review and critique plans for just, sustainable and efficient settlements.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

4584 - Housing Strategy

Credits: 9

Type: Studio

Instructor/s: Vanishree Herlekar

This component will work out housing strategy for the main development plan of the city/ town.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

4585 - City Infrastructure Prioritization Studio

Credits: 9

Type: Studio

Instructor/s: Saswat Bandyopadhyay

City Infrastructure Planning involves several subsectors and institutions engaged in planning, designing, delivery and management of infrastructure services. This studio intends to develop a detailed understanding of how city level infrastructure

planning norms and regulations, demand assessment and projects, prioritization of Infrastructure and Investment outlines. Participants will work in teams to deal with macro to micro as well as sectorial issues and develop an integrated perspective of City Infrastructure Planning.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

4586 - Environmental Planning Studio

Credits: 9

Type: Studio

Instructor/s: Ashwani Kumar

The studio in urban environmental focus to analyze the issues on related to natural, physical, social, amenity ranging from air, industrial pollution to degradation of water systems including river/lake/groundwater etc. to waste using the various approaches such as pollution reduction ecological, resources bioregion or sensitive areas conservation, zoning and land use planning. The studio also encourages employing tools and methods of environmental information, thematic mapping, trends, environmental hotspots, environmental indices, spatial multi-criteria evaluation etc.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

4587 - Strategic Transportation Plan for a City

Credits: 9

Type: Studio

Instructor/s: Shalini Sinha, Nitika Bhakuni

The students will prepare a strategic transportation plan for a city which requires data collection with respect to land use, transport and socio economic characteristics of the case study city. Based on the existing situation analysis, they develop a long term vision for the city and propose alternative development strategies and appraise them to arrive at the most optimal set of land use transport proposals.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

5055 - Project Training

Credits: 20

Type: Internship

Instructor/s: Devanshu Pandit, Reshma Shah, Bhargav Tewar, Parth Thaker

To study construction methods, techniques planning, designs, quality control, project execution through 18 weeks on site practical training.

Faculty: Technology

Program: UG

Prerequisites: 1) For 2012 & 2013 batch - Students who have cleared 95 core credits and clearance of Field Study, Quantity Surveying -I (2) For 2011 batch- Students who have cleared 95 core credits and clearance of Field Study, Quantity Surveying-1 (3) For 2010 batch

Time:

Days:

.....  
....

5536 - Construction Management-II

Credits: 6

Type: Studio

Instructor/s: Ganesh Devkar, Jyoti Trivedi

The studio is extension of Construction Management-I which addresses the culture, principles, and techniques of constructions management. It consists of managing project life cycle phases of execution,project finalization and close-out of construction projects.

Faculty: Technology

Program: PG

Prerequisites: PG students, Studio-I Construction Management-I, mandatory for PG CEM

Time: 10.30-13.30, 10.30-13.30

Days: Monday, Wednesday

.....  
....

5551 - Infrastructure Design - City Level (IED)

Credits: 9

Type: Studio

Instructor/s: Tushar Bose, Mihir Das

This studio would cover the analysis of locations of new ports in Gujarat. It would cover a detailed analysis of the types of cargo, cargo volumes, designing of storage and utilities and the water and land side infrastructure for the proposed port. The studio would also cover carrying out detailed financial assessment for the port.

Faculty: Technology

Program: PG

Prerequisites: MIED students

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

Days: Monday, Wednesday, Friday

.....  
....

5558 - Municipal GIS

Credits: 6

Type: Studio

Instructor/s: Jitendra Dadhania, A R Dasgupta, Darshana Rawal

Municipal GIS facilitates citizens to know about the wards and facilities available, various schemes executed by the government, grievances redressal system besides facilitating administrators/planners to have a one stop online planning tools towards better governance. Municipal GIS systems is a GIS system which manages various tasks of a municipality such as Property Tax, Birth and Death Registration, Socio Economic Data management and Holding registration. This also shows the geospatial view of the current municipal area linked with the corresponding database. The database possesses attributes of each individual property with information such as land owner, co-owner, mailing & permanent address, house style, built year, individual room measurements, compliance with the regulations of the building authorities, public / private utilities mapping to the plot, street characteristics and amenities. There can also be a provision of linking each individual plots with their digital photographs, and a link to the Map showing the location of the plot. The studio will be emphasis on development of basic generic tools which can be used by any Municipality using their own data. students will be divided in group of 2-3 create tools that can be used for e-governance or can be enhanced by new students next year for developing complex GIS based Decision making system for Government Bodies.

Faculty: Technology

Program: PG

Prerequisites: Geomatics 2nd Semester students

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

Days: Monday, Wednesday, Thursday

.....  
....

5620 - Studio-2 Multi Storey Structures (SED)

Credits: 5

Type: Studio

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

An extension of Gravity structures studio, where in students take up individual live project. They prepare structural system at all levels, analyze, design and detail the structure for gravity as well as lateral loads using static and response spectrum analysis. Introduction to non-linear analysis.

Faculty: Technology

Program: PG

Prerequisites: PG SED-Gravity studio

Time: 10.30-12.30, 10.30-13.30

Days: Monday, Wednesday

.....  
....

# Technical Drawing and Visualization

1078 - Visualization and Representation II

Credits: 4

Type: Workshop

Instructor/s: Sachin Soni, Arundhati Saikia, Kinny Soni, Saptarshi Mitra, Krunal Mistry, Pratyush Shankar

Emphasis of this course is to use drawing as a medium of spatial visualization. Students will be introduced to various drawing mediums, both technical and non-technical, to represent as well as understand the qualities of spaces. Course will explore diverse visual mediums such as graphite, ink, charcoal, colour - paint, collage, reliefs, pop-ups, etc. through technical drafting, freehand sketching and combination of both to probe into the spatial characteristics of built environments.

Faculty: Architecture

Program: UG

Prerequisites: Should be a registered student of FA-UG

Time: 14.30-18.30, 14.30-18.30

Days: Tuesday, Friday

.....  
....

2041 - Materials & Methods of Construction

Credits: 2

Type: Lecture

Instructor/s: Canna Patel

The course focuses on applied materials understanding with the idea of non engineering materials, their finishes, applications, techniques and processes through assignments and market research.

Faculty: Design

Program: UG

Prerequisites: UG students: 2nd year and above

Time: 14.30-16.30

Days: Tuesday

2075 - VR- II Analytical Drawing

Credits: 3

Type: Workshop

Instructor/s: Kireet Patel

This course explores drawing skills and technical skills as tools of design thinking, visualization and representation. It will include analytical drawing that will involve exploring forms, geometries and proportions. Representing interior spaces through drawing, exploring the play of light and shadows that impart depth to a space. It also deals with presentation skills to inform to communicate and to convey thoughts, ideas and design.

Faculty: Design

Program: UG

Prerequisites: Students who have cleared VR I - TRD from the Faculty of Design are eligible for the course

Time: 14.30-17.30, 14.30-17.30

Days: Monday, Thursday

.....  
....

2078 - Construction Technology-II

Credits: 3

Type: Workshop

Instructor/s: Hamid Raj, Varun Shah

Through this course the student learns to communicate the knowledge of structure through appropriate drawings with material notations and understanding of on site conditions.

Faculty: Design

Program: UG

Prerequisites: Students who have cleared CT-I from the Faculty of Design are eligible for the course.

Time: 08.30-11.30, 10.30-13.30

Days: Tuesday, Thursday

.....  
....

2081 - Interior Construction Drawing-II

Credits: 4

Type: Design Workshop

Instructor/s: Ramesh Patel, Amal Shah

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

Faculty: Design

Program: UG

Prerequisites: UG students only: Cleared Interior Design Studio - III, ICD-1, and have sufficient knowledge of AutoCAD 2D

Time: 14.30-17.30, 10.30-13.30

Days: Tuesday, Thursday

.....  
....

2090 - Carving the Future

Credits: 2

Type: Workshop

Instructor/s: Henry Skupniewicz

In this class, students will learn how to design for CNC machines (both large and small formats) through hands-on experimentation. Additionally, the class explore how this manufacturing technique can fit into a larger toolchain -- be it casting, assembly, or surface modeling.

Faculty: Design

Program: UG

Prerequisites: Students who are proficient in Auto-Cad

Time: 14.30-17.30

Days: Friday



.....  
.....  
**5617 - Advanced Design of Structures  
(SED)**

Credits: 4

Type: Lecture

Instructor/s: Aanal Shah, Dhara Shah

Design of special components in reinforced concrete structures such as deep beams, corbels, retaining walls, flat slabs and folded plates. Design of gantry girders, plate girders, beam-column and industrial structures with different roofing systems such as trusses and portals in steel structures.

Faculty: Technology

Program: PG

Prerequisites: PG SED

Time: 08.30-10.30, 14.30-16.30

Days: Thursday, Tuesday

.....  
.....

**5620 - Studio-2 Multi Storey Structures  
(SED)**

Credits: 5

Type: Studio

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

An extension of Gravity structures studio, where in students take up individual live project. They prepare structural system at all levels, analyze, design and detail the structure for gravity as well as lateral loads using static and response spectrum analysis. Introduction to non-linear analysis.

Faculty: Technology

Program: PG

Prerequisites: PG SED-Gravity studio

Time: 10.30-12.30, 10.30-13.30

Days: Monday, Wednesday

# Technology

1033 - Joinery in Building Elements	Faculty: Architecture	prestressing, retaining structures. The course also deals with the soils and foundations,
Credits: 3	Program: UG	advanced construction materials and techniques.
Type: Workshop	Prerequisites: Should have completed one course in Structures	Faculty: Architecture
Instructor/s: Sankalpa, Krunal Patel, Vicky Achnani, Tanvi Jain	Time: 08.30-10.30	Program: UG
The workshop course undertakes a series of hands on exploration into making of joinery in different material. It systematically then builds on this exploration with theoretical lectures on material-joinery relationship and brings out their element making ability. The course also gives an outline of the building elements classified according to sequence of construction, location of elements (internal/ external), role in load transfer (load bearing/non load bearing; horizontal/ vertical) and resource use.	Days: Friday	Prerequisites: Mandatory for FA UG only
Faculty: Architecture	..... ....	Time: 14.30-16.30
Program: UG	1038 - Building Elements II	Days: Monday
Prerequisites: Should be a registered student of FA-UG	Credits: 2	..... ....
Time: 08.30-10.30, 14.30-18.30	Type: Workshop	1053 - Building Quantity and Costs
Days: Thursday, Thursday	Instructor/s: Mona Khakhar, M.C.Gajjar	Credits: 2
..... ....	This workshop course focuses on the service aspect of the building (e.g. water supply and drainage, electrical, fire protection, lifts etc.) through site studies and addressing the drawing details in construction with necessary theoretical lectures. The Students are also exposed to traditional construction practices as well as current construction methods and materials for lateral loads.	Type: Lecture
1034 - Fundamentals of Structures II	Faculty: Architecture	Instructor/s: Ajit Desai
Credits: 2	Program: UG	This lecture based course is an introduction and overview of building cost estimation. The course will cover methods of estimation, taking of measurements, preparation of schedule of quantities, rate analysis of items of work, preparation of estimates and recapitulation, specifications in brief, principal material requirements and their co-relation to estimates
Type: Lecture	Prerequisites: Open to FA,FD, and FT UG students who have cleared either the subject Joinery in Building Elements offered in FA-UG or one course in construction	Faculty: Architecture
Instructor/s: Mona Khakhar	Time: 14.30-18.30	Program: UG
The course aims at developing the understanding of relationship of material and form. To develop such understanding the study of structural properties of materials, processes involved in construction, behaviour of structural systems and historical context is essential. Course covers structural materials like stone, timber, brick, mud, steel, reinforced concrete etc. with systems like post and beam, rigid frames, trusses and space frames, folded plates and shells. The course will be conducted mainly as lectures and classroom discussions. The relevant assignments will cover study of systems and material properties along with required site visits.	Days: Tuesday	Prerequisites: Mandatory for FA UG only
..... ....	..... ....	Time: 08.30-10.30
1044 - Building Technology	1044 - Building Technology	Days: Friday
Credits: 2	Credits: 2	..... ....
Type: Lecture	Type: Lecture	1082 - Poetics of Material: Bamboo
Instructor/s: Mona Khakhar	Instructor/s: Mona Khakhar	Credits: 2
The course consists of advanced construction technology and materials. It encompasses the construction technologies and materials not used in conventional construction like	The course consists of advanced construction technology and materials. It encompasses the construction technologies and materials not used in conventional construction like	Type: Workshop
Instructor/s: Sankalpa	Instructor/s: Sankalpa	Instructor/s: Sankalpa

The course outlines a journey to bring about various facets of bamboo as a form giving material. This workshop course will dwell upon the idea of hands on exploration with theoretical input as a way to discuss joinery, components, systems and eventually a building language that develops out of it. In the process of exploration, students will learn to select or reject their derived form based on the various tasks that it can perform, structural stability and meaning that it can communicate. It would also bring about questions of technology, cultural and societal perception of material, the challenges it faces in the current scenario and a way forward into the future.

Faculty: Architecture

Program: UG

Prerequisites: Open for FA and FT UG Students till third year level

Time: 14.30-18.30

Days: Wednesday

.....  
....

**1572 - Architectural Conservation**

Credits: 2

Type: Lecture

Instructor/s: Jigna Desai, Khushi Shah

The main objective of this course is to engage students with ideological debates related to architectural conservation and their related processes. After having outlined the history of conservation, the input sessions will focus on the local, national and international legislative and regulatory mechanisms in context of the ideological positions. By the end of this course, students should be enabled enough to articulate their own position on conservation.

Faculty: Architecture

Program: PG

Prerequisites: Completion of M.Arch. Foundation Studio OR First Stage (3 yrs) in FA/ FD/ FT UG.

Time: 08.30-10.30

Days: Thursday

.....  
....

**1573 - Case Studies in Conservation**

Credits: 2

Type: Lecture

Instructor/s: Jigna Desai

This course is designed to provide the exposure of various conservation practices in India. While it will be coordinated by the instructor, the input sessions will be by the invited practitioners who will present and discuss their work. Each of the speakers will outline their own position on conservation, relevant issues in the Indian Context and articulate their responses.

Faculty: Architecture

Program: PG

Prerequisites: Completion of First Stage (3years) in any Faculty

Time: 14.30-16.30

Days: Wednesday

.....  
....

**1578 - Form Finding and Fabrication**

Credits: 2

Type: Workshop

Instructor/s: Ujval Panchal, Aditya Patel, Darshan Soni

This course will deal with methods of form findings and fabrication, both digital and analog. Students will be expected to visualize, generate and produce three dimensional forms and models in workshops both on and off campus. Students will develop advanced skills in visualizing and understanding design processes.

Faculty: Architecture

Program: PG

Prerequisites: Proficiency in 2D and 3D software of any kind.

Time: 14.30-16.30

Days: Monday

.....  
....

**2041 - Materials & Methods of Construction**

Credits: 2

Type: Lecture

Instructor/s: Canna Patel

The course focuses on applied materials understanding with the idea of non engineering materials, their finishes, applications, techniques and processes through assignments and market research.

Faculty: Design

Program: UG

Prerequisites: UG students: 2nd year and above

Time: 14.30-16.30

Days: Tuesday

.....  
....

**2050 - Renovation & Alteration**

Credits: 2

Type: Lecture

Instructor/s: Poonam Jolly

This course is conducted in two modules. The first module deals with developing a theoretical understanding of the different structural systems and the possibilities of change within these systems. The second module addresses the procedural aspects of renovation and alteration. It will involve understanding the phases of planning, management and execution vis-a-vis different kinds of structural changes. Site visits will be an integral part of the course.

Faculty: Design

Program: UG

Prerequisites: Students who have cleared Int. Design Studio - IV & Int. Const. Drg. - II are eligible for the course

Time: 14.30-16.30

Days: Tuesday

.....  
....

**2078 - Construction Technology-II**

Credits: 3  
 Type: Workshop  
 Instructor/s: Hamid Raj, Varun Shah  
 Through this course the student learns to communicate the knowledge of structure through appropriate drawings with material notations and understanding of on site conditions.  
 Faculty: Design  
 Program: UG  
 Prerequisites: Students who have cleared CT-I from the Faculty of Design are eligible for the course.  
 Time: 08.30-11.30, 10.30-13.30  
 Days: Tuesday, Thursday

2079 - Construction Technology-IV

Credits: 2  
 Type: Lecture  
 Instructor/s: Shehzad Irani  
 Study and analysis of mass, surface, load bearing and frame structural systems and their structural behaviors, interior elements and their relationships with systems.  
 Faculty: Design  
 Program: UG  
 Prerequisites: Students who have cleared CT-III from the Faculty of Design are eligible for the course.  
 Time: 14.30-16.30  
 Days: Thursday

2502 - Craft in Interior Architecture

Credits: 2  
 Type: Design Workshop  
 Instructor/s: Jay Thakkar

Craft in Interior Architecture course introduces students to the concept and meaning of Building Crafts: 'Space Making Crafts' (SMC) and 'Surface Narrative Crafts' (SNC) in the field of interior architecture. The course will deal with various research methods like identification, mapping, documentation, investigation, interpretation and representation of the Building Crafts. Students will be exposed to various types of SMCs and SNCs through research and field visits to sites in Gujarat.  
 Faculty: Design  
 Program: PG  
 Prerequisites: Students who have cleared '2522 Craft: Processes, Collaboration and Cultural Perception'  
 Time: 9.30-13.30  
 Days: Thursday

2512 - Crafts: Contemporary Orientation in Interior Architecture

Credits: 2  
 Type: Lecture  
 Instructor/s: Kireet Patel, Rishav Jain  
 Crafts of buildings as potential technological situation can emerge as an unique opportunity in practices of architecture and interior design. We are constantly in search of cultural meaning in architecture and interior design. Manual skills are rooted in our culture and are still present in our society. Can practices of architecture and interior design learn to give importance to crafts of buildings and crafts communities such that it enriches crafts and our life in general?  
 Faculty: Design  
 Program: PG  
 Prerequisites: Students who have cleared '2522 Craft: Processes, Collaboration and Cultural Perception'  
 Time: 14.30-16.30  
 Days: Wednesday

5052 - Construction Technology-IV

Credits: 3  
 Type: Lecture  
 Instructor/s: Japan Shah, Nisarg Shah  
 To introduce the students to various construction techniques. It covers topics as Deep Foundation, Drilling Techniques, Blasting Methods, Under Pinning, Retaining Walls, Demolition Methods, Ferrocement, Cofferdams, Dewatering Systems, Trenchless Technology, Dredging etc.  
 Faculty: Technology  
 Program: UG  
 Prerequisites: 3rd year students of any Faculty  
 Time: 08.30-10.30, 08.30-09.30  
 Days: Monday, Tuesday

5067 - Renewable Energy Technologies

Credits: 2  
 Type: Lecture  
 Instructor/s: C. G. Pandya  
 All over the world, there is a wave of generating power from renewable sources like wind, solar, ocean, biomass etc. In European Universities and in US universities a number of programmes on the subject have now started coming up. For the next 30 years or so, this spate will continue  
 Faculty: Technology  
 Program: UG  
 Prerequisites: Open to all  
 Time: 16.30-18.30  
 Days: Thursday

5090 - Engineering Materials-II

Credits: 4  
 Type: Lecture Type 2

Instructor/s: Anal Sheth, Pavni Pandya

This course introduces the five major categories of (manufactured) materials that have brought revolutionary changes in the construction industry - (a) Concrete and concreting materials viz. aggregates, cement, admixtures (b) Ferrous and non ferrous materials including stainless steel (c) Polymers and plastics (d) Glass (e) Composite materials. Addresses the manufacturing, properties, types, applications and method/operations for application of these materials. Also covers the environmental concerns and the ongoing R&D in context of these materials.

Faculty: Technology

Program: UG

Prerequisites: 1st year UG students from any faculty

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

Days: Wednesday, Thursday, Thursday, Friday

.....  
....

5091 - Solid Mechanics

Credits: 3

Type: Lecture Type 2

Instructor/s: Komal Parikh, Dipsha Shah

The course covers the fundamentals of solid mechanics, exposing students to statics and dynamics in context of structures.

Faculty: Technology

Program: UG

Prerequisites: 1st year UG students from any faculty

Time: 10.30-13.30, 15.30-16.30, 09.30-10.30

Days: Monday, Tuesday, Wednesday

.....  
....

5092 - Surveying and Levelling

Credits: 5

Type: Lecture Type 2

Instructor/s: Komal Parikh

The objective of this course is to enable students to understand salient methods to be applied, selection of instruments, operational skill and concluding process for desired information in the aspects of preparation of maps, interpretation of details, working out necessary quantities of areas, volumes etc. and to develop skill in the use of advance technique such as total station, GPS in surveying.

Faculty: Technology

Program: UG

Prerequisites: 1st year UG students from any Faculty

Time: 10.30-13.30, 10.30-13.00, 10.30-13.00

Days: Wednesday, Thursday, Friday

.....  
....

5093 - Engineering Mathematics

Credits: 3

Type: Lecture Type 2

Instructor/s: Natwar Roghelia

The expected learning outcome is that the students achieve thorough knowledge in fundamental concepts in prime field differentiation and integration of calculus and theory of equations and enhance their analytical skills, develop insight for application in real life situations, use mathematical knowledge for decision making and search for more areas of application.

Faculty: Technology

Program: UG

Prerequisites: Any 1st year UG students

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

Days: Monday, Tuesday, Tuesday

.....  
....

5094 - Fluid Mechanics

Credits: 3

Type: Lecture Type 2

Instructor/s: Dipsha Shah, Shailaja Pandit

This course is involves in sea and river defenses, water distribution & sewerage networks, hydraulic design of sewage treatment plant and hydraulic structures. This course is designed to cover various aspects that are useful in project planning and execution work as well as for the design of simple hydraulic components.

Faculty: Technology

Program: UG

Prerequisites: Only FT UG students

Time: 14.30-16.30, 10.30-13.30

Days: Wednesday, Thursday

.....  
....

5095 - Analysis of Structural Systems

Credits: 4

Type: Lecture Type 2

Instructor/s: Anal Sheth, Parth Thaker

This course introduces the structural analysis techniques and design philosophies in the context of various structural systems.

Faculty: Technology

Program: UG

Prerequisites: Clearance of Structural Analysis

Time: 08.30-10.30, 15.30-16.30, 10.30-13.30

Days: Tuesday, Tuesday, Wednesday

.....  
....

5096 - Construction Technology – II

Credits: 5

Type: Lecture Type 2

Instructor/s: Reshma Shah, Pavni Pandya, Yogesh Gandevikar

To impart knowledge of techniques used in the construction of various components of load bearing, frame, composite structures along with practical experience and related application of Tools, Equipment and Plants

used in Construction Industry. It covers topics such as Formwork & scaffolding systems, Floors and floor finishes, Wall finishes etc.

Faculty: Technology

Program: UG

Prerequisites: Student/s of 2nd year from any Faculty

Time: 10.30-13.30, 14.30-15.30, 08.30-10.30, 08.30-10.30

Days: Monday, Tuesday, Wednesday, Thursday

.....  
....

5097 - Steel Design

Credits: 4

Type: Lecture Type 2

Instructor/s: Anal Sheth, Parth Thaker

This course introduces the structural design aspects of steel structures. The course will cover design of typical steel elements for their applicable limit states. This course provides an opportunity for hands on experience in design of steel structure.

Faculty: Technology

Program: UG

Prerequisites: Clearance of Structural Analysis

Time: 10.30-13.30, 10.30-13.30

Days: Monday, Friday

.....  
....

5098 - Highway Engineering

Credits: 4

Type: Lecture Type 2

Instructor/s: Anal Sheth, Pavni Pandya

The course introduces the fundamentals of traffic engineering, highway planning and investigations with a brief overview of highway development, legislation and administration in the Indian scenario. It appraises students on geometric design, pavement design of flexible and rigid pavements, requirements of highway

materials and construction technology with earthwork estimations. It also addresses quality control, safety, sustainability, intelligent transport models and innovative funding policies (public private partnership) in light of the new visions set forth by MoRTH. Requires the students to work towards a project addressing a highway related topic.

Faculty: Technology

Program: UG

Prerequisites: 3rd year students of any Faculty

Time: 14.30-17.30, 08.30-10.30, 09.30-10.30

Days: Monday, Wednesday, Thursday

.....  
....

5100 - Introduction to Soil Dynamics

Credits: 2

Type: Lecture

Instructor/s: Pavni Pandya

The objective of this course is to familiarize the students to the field of geotechnical earthquake engineering. It focuses on describing seismic hazard and developing methods for seismic analysis, fundamentals of dynamic soil response. In addition, methods for soil liquefaction initiation and liquefaction-induced ground deformation predictions will be discussed.

Faculty: Technology

Program: UG

Prerequisites: Students who have cleared 1st year from any Faculty

Time: 16.30-18.30

Days: Tuesday

.....  
....

5102 - Basics of Irrigation Structures

Credits: 2

Type: Lecture

Instructor/s: Bhargav Tewar

This Course of Basics of Hydraulic structures is to make student enable to know importance of hydraulic structure, their site selection, analysis of forces acting on the structure, various aspects related to efficient functioning of structure and understanding design criteria for design of appurtenant works. Using different theories students will be able to design whole structure.

Faculty: Technology

Program: UG

Prerequisites: 3rd year and above & PG students of any Faculty

Time: 17.30-19.30

Days: Tuesday

.....  
....

5104 - Sustainable Technologies and Waste Utilization

Credits: 2

Type: Lecture

Instructor/s: Shailaja Pandit

Clean Production, is a logical extension of our desire to conserve raw materials and reduce waste. It allows producers of goods and service providers to produce more with less – less raw material, less energy and less waste and thus less environmental impacts. Cleaner Production is a step beyond waste management – it deals with the source of the problem rather than the symptoms. This course will introduce students on the concepts of Cleaner Production, Cleaner Production methodology, introduction to Energy Audit Methodology, concepts and application of Recycling and Reuse, Bio management for Waste Utilization.

Faculty: Technology

Program: UG

Prerequisites: 2nd year (semester III) onwards including all PG students of any Faculty

Time: 14.30-16.30

Days: Thursday

.....  
....

**5105 - Digital Multimedia Technology**

Credits: 2

Type: Lecture

Instructor/s: N. J. Naidu

Digital multimedia technology is rapidly growing, which changing style and thought of human being. This course will acknowledge by student about the latest development in multimedia technology the world over. Overall view of various types of projections like 3D mapping, holography, video distribution, digital display system, AV conferences and digital experience center. The awareness of world latest technology in digital multimedia.

Faculty: Technology

Program: UG

Prerequisites: Students who have completed Elective course of BS I or Students should have basic knowledge of IT & Digital Multimedia

Time: 16.30-18.30

Days: Thursday

.....  
....

**5554 - Digital Image Processing**

Credits: 3

Type: Lecture

Instructor/s: Bindi Dave

The subject aims to give students a general understanding of the fundamentals of digital image processing; Introduce the student to analytical tools which are currently used in digital image processing as applied to image information for human viewing and Develop the students ability to apply these tools in the laboratory in image restoration, enhancement and compression. This course emphasizes on implementation of algorithms as computer programs. The techniques taught in this course have application in several fields dealing with image/satellite data. The practical exercises will emphasize on various applications. Emphasis will be to develop engineering skills and intuitive understanding of the tools used in Image Processing.

Faculty: Technology

Program: PG

Prerequisites: Open for All

Time: 14.30-16.30, 14.30-15.30

Days: Tuesday, Thursday

.....  
....

**5557 - Spatial Analysis Techniques**

Credits: 3

Type: Lecture

Instructor/s: Hardik Panchal

Spatial analyses are performed on spatial phenomena and processes. Principles and techniques of spatial analysis includes spatial statistics, spatial mutual interactions, spatial reliance and spatial decision-making. It is useful for the interdisciplinary fields such as social sciences, earth science, and engineering, planning and management. This subject aims to explore principles and techniques of spatial information science. The learning will establish theoretical understanding through sufficient number of practical hands-on exercises using real time case study.

Faculty: Technology

Program: PG

Prerequisites: Understanding of Basic GIS

Time: 14.30-16.30, 14.30-15.30

Days: Monday, Friday

.....  
....

**5558 - Municipal GIS**

Credits: 6

Type: Studio

Instructor/s: Jitendra Dadhania, A R Dasgupta, Darshana Rawal

Municipal GIS facilitates citizens to know about the wards and facilities available, various schemes executed by the government, grievances redressal system besides facilitating administrators/planners to have a one stop online planning tools towards better governance. Municipal GIS systems is a GIS system which manages various tasks of a municipality such as Property Tax, Birth and Death Registration, Socio Economic Data

management and Holding registration. This also shows the geospatial view of the current municipal area linked with the corresponding database. The database possesses attributes of each individual property with information such as land owner, co-owner, mailing & permanent address, house style, built year, individual room measurements, compliance with the regulations of the building authorities, public / private utilities mapping to the plot, street characteristics and amenities. There can also be a provision of linking each individual plots with their digital photographs, and a link to the Map showing the location of the plot. The studio will be emphasis on development of basic generic tools which can be used by any Municipality using their own data. students will be divided in group of 2-3 create tools that can be used for e-governance or can be enhanced by new students next year for developing complex GIS based Decision making system for Government Bodies.

Faculty: Technology

Program: PG

Prerequisites: Geomatics 2nd Semester students

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

Days: Monday, Wednesday, Thursday

.....  
....

**5627 - PPP for Infrastruture Projects (IED)**

Credits: 2

Type: Lecture

Instructor/s: Chandrima Mukhopadhyay

In module I, the basic concepts of Public Private Partnership (PPP) as a mode of infrastructure delivery will be introduced. Students will learn about the evolution of PPP, forms of PPP, framework of accountability, and Value for Money methodology. Module II will be based on student presentation about both Indian and international case studies.

Faculty: Technology

Program: PG

Prerequisites: PG students

Time: 8.30-10.30

Days: Tuesday

.....  
....

**5629 - Modelling and Monitoring of Environmental Parameters**

Credits: 2

Type: Lecture

Instructor/s: Anurag Kandya

Earth is a dynamic system witnessing changes with the blink of an eyelid. With the growth in the population, there is a significant change in various environmental parameters which includes built-up area; ambient temperature, relative humidity, anthropogenic heat and subsequently the entire surface energy budget; emissions and concentration of the gases (pollutants); and many more. Alterations in these parameters have adversely affected the overall environment and finally the entire mankind. With this background, the proposed course is designed with a focus to monitor as well as model the various environmental parameters. Topics which will be covered in this course are: i) Land use / land cover (assessment and forecasting); ii) Air quality (assessment and forecasting); iii) Local climatic zones and Urban Heat Island Effect; iv) Bio-meteorological Indices and Human Thermal Comfort and v) Impact of meteorology on human thermal comfort and building energy consumption. Real-time assignments based on the above mentioned topics will be outlined which shall be attempted by students in a group of 4-5.

Faculty: Technology

Program: PG

Prerequisites: Nil

Time: 18.30-19.30, 18.30-19.30

Days: Tuesday, Friday

.....  
....

**5631 - Introduction to E-Commerce**

Credits: 2

Type: Lecture

Instructor/s: Jimmy Shethana

The trade and commerce of the full world economy is going towards trading on the internet. With global perspective in mind this

course will give students knowledge on how trade is done on the internet. The course will give the backend requirements for ecommerce, the pros and cons of ecommerce; so that when students graduate to face the real world, they are aware of the commercial aspects of trading on the internet.

Faculty: Technology

Program: PG

Prerequisites: Nil

Time: 16.30-18.30

Days: Tuesday

.....  
....

**5632 - Thinking Spatially**

Credits: 2

Type: Lecture

Instructor/s: P. K. Srivastava

It is generally agreed that the spatial framework (along with time) forms the fundamental layer in the modeling of natural and social phenomena, both static and dynamic. Thus definition of an appropriate spatial framework and organization of other modeling layers like socioeconomic and infrastructure data sets over the spatial framework assumes fundamental importance. The objective of this course is to expose the students to geospatial thinking and invite them to explore the myriad of ways in which the interplay of spatial data layers help in analyzing day to day problems of resource management and of governance. Students shall be exposed to organization of the Spatial Data Infrastructure and its crucial role in planning and development.

Faculty: Technology

Program: PG

Prerequisites: Open for All

Time: 14.30-16.30

Days: Wednesday

.....  
....

**5633 - Space, Time and Crime**

Credits: 2

Type: Lecture

Instructor/s: Anjana Vyas

The purpose of this course is to start to familiarize the students with the geographic concepts and techniques used in the study of crime and justice. It will primarily focus on examination of the spatial and temporal patterns of crime within the urban mosaic. It is a class that mixes classroom seminars on theory with lab work on the use of GIS. The practical work is designed to give students with no previous experience in the use of GIS a jumpstart into the world of spatial crime analysis. The practical work will be based on the software handling. Students will learn to systematically analyze data pertaining to police services and criminal activity to: 1) Identify trends and patterns. 2) Inform tactical and strategic operations. 3) Problem solving. 4) Assess planned interventions involving crime.

Faculty: Technology

Program: PG

Prerequisites: Open for All

Time: 16.30-18.30, 15.30-16.30

Days: Thursday, Friday

.....  
....

**5634 - Social Media, Human & Situation Analysis**

Credits: 2

Type: Lecture

Instructor/s: A R Dasgupta, Jitendra Dadhania

The great popularity of platforms such as twitter and YouTube, and the substantial amount of content that is communicated through them are making social media an essential component of open-source intelligence. The information communicated through such feeds conveys the interests and opinions of individuals, and reveals links and the complex structure of social networks. However, this information is only partially exploited if one does not consider its geographical aspect. Indeed, social media feeds more often than not have some sort of geographic content, as they may communicate the location from where a particular report is contributed, the geolocation of an image, or they may refer to a specific sociocultural hotspot. By harvesting this



geographic content from social media feeds we can transfer the extracted knowledge from the amorphous cyberspace to the geographic space, and gain a unique understanding of the human landscape, its structure and organization, and its evolution over time. This newfound opportunity signals the emergence of open-source geospatial intelligence, whereby social media contributions can be analyzed and mined to gain unparalleled situational awareness.

Faculty: Technology

Program: PG

Prerequisites: Open for All

Time: 09.30-10.30, 09.30-10.30

Days: Monday, Thursday

5635 - Digital Technology for Preserving Heritage

Credits: 2

Type: Lecture

Instructor/s: Virat Kothari

We live in an age of Digital storage and recreation. These technologies have the capacity to protect memories of the past against the destructive forces of time, nature and man-made events. Already there are Digital Library projects underway to capture the written documents and manuscripts in digital form. One should aim to extend the power of digital technologies to well beyond these monuments to art, architecture and all forms of cultural and historical knowledge. Beyond simply storing and sharing the heritage data and knowledge, the emerging technologies in computer vision, graphics, audio and video technologies and user interface design offers the prospect of creating vivid experiences of the heritage for common users. This subject aims to understanding value of Culture & Heritage; the tools and technologies that can be used for conservation and preservation of heritage sites and generating valuable information for the cultural heritage including manuscripts, books, monuments, historical sites etc.

Faculty: Technology

Program: PG

Prerequisites: At least basic knowledge of computer is required. Students having knowledge of architecture, construction, maps, and Geospatial technologies will be an added advantage.

Time: 08.30-10.30

Days: Wednesday

5636 - Spatial Modeling

Credits: 3

Type: Lecture

Instructor/s: Darshana Rawal

Spatial modelling is key features for the successful decision making thought in today's difficult and critical challenges at the day to day work. While digital mapping technologies such as Mobile mapping, Open Street map, Google Maps, Google Earth and such open source spatial data are now in widespread general use, Spatial Modelling only reaches its full potential when the power of spatial analysis is engaged. While the common people oriented mapping tools are simple and intuitive for most people to use, spatial analysis requires a much deeper awareness of the underlying assumptions and methods. In fact, the easy access to very advanced spatial analytical and modelling tools in today's GIS is deceptive as it is fairly simple to walk through wizards and push buttons to perform an analysis, but much more difficult to produce a valid, defensible analytical result. This course aims to provide students with the knowledge and skills necessary to investigate the spatial patterns which result from social and physical processes operating on or near the Earth's surface. Learning concepts of quantitative geography and spatial analysis are examined, including measures of geographical distribution (including point and areal pattern analysis) and spatial autocorrelation, network connectivity, interpolation and geostatistics, and the suitability of spatial data as frame work are examined. The focus is on understanding the theories and context of spatial analysis and modelling so that you are equipped to find and apply the best analytical tool for problem and to correctly and appropriately interpret of the results.

Faculty: Technology

Program: PG

Prerequisites: Knowledge of Advanced GIS and Digital Image Processing

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

Days: Monday, Thursday, Friday

5637 - GIS for Landscape Architecture

Credits: 3

Type: Lecture

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

Landscape Planning deals with the designing of public areas, structures and landmarks to achieve pre-defined ecological, environmental or aesthetic outcome. It is a multi-disciplinary field involving aspects of botany, horticulture, architecture, ecology, fine arts, industrial design, geology, earth sciences, geography and presenting spatial features in form of plans and maps. The variety of activities carried out under landscape planning includes designing of campuses and sites for public and private institutions, parks, botanical gardens, recreational facilities like golf courses and sports facilities, housing complexes etc. In order to achieve pre-defined outcome, the ecological, environmental or aesthetic aspects are assessed based upon the laid down criteria and constraints while designing the landscapes. Since Landscape Planning involves study, analysis and presentation of spatial data and a Geographic Information System (GIS) is very well capable of handling, combining, analyzing, viewing and presenting spatial data, this course will really be useful. Apart from this, a GIS is also able to address various design related aspects like normative analysis and suggesting prescriptive measures. Integration of GIS with other technologies such as Remote Sensing (RS) and Global Positioning System (GPS) has been found useful in mapping the natural resources around the site to be developed and evaluating terrain and geological characteristics of the site. Currently GIS is also being used in the field of Landscape Planning. Numerous examples of designing of parks, botanical gardens, golf courses, industrial sites have been reported in which GIS has been used. Examples of using GIS for environmental or ecological sensitivity analysis of a site or a region have also been reported. The objective of the course is to motivate students to use RS and GIS technologies in Landscape Planning and make them aware of various analysis and presentation techniques to be used in carrying out Landscape Planning activities. After

successfully completing this course, the students should have understanding of the following- • Remote Sensing data processing and analysis • GIS basics and concept and representation of spatial data • Knowledge of datasets required for Landscape Planning • Spatial data editing and joining spatial and attribute data tables • GIS database creation • Geo-Referencing RS data • Geo-Processing of spatial data • Hydrological data processing for Landscape Planning • Site suitability analysis for Landscape Planning • Spatial data presentation in form of maps, charts and 3-D views • Case Studies on Landscape Planning

Faculty: Technology

Program: PG

Prerequisites: Knowledge of Geology and Hydrology is required

Time: 15.30-16.30, 16.30-18.30

Days: Thursday, Friday

.....  
....

# Thesis

1020 - Thesis	Instructor/s: Kamalika Bose	Instructor/s: Mercy Samuel
Credits: 15	This studio discusses interior spaces and built forms, understood through solid and void relationship. It also focuses on spatial, architectural and interior elements. It helps understanding of spatial relationships between architectural principles, elements and their systems, scale, light and movement. It explores the relationship between spatial, architectural and interior elements and their impact on layouts and space planning relationships.	Research
Type: Guided Research		Faculty: Management
Instructor/s: Sankalpa	Students demonstrate their abilities to conduct independent research on topics of architectural relevance in this course. The progress of the student is evaluated through interim reviews and a final viva voce.	Program: PG
Faculty: Architecture		Prerequisites: Cleared all three studios
Program: UG	Faculty: Design	Time:
Prerequisites: Should have cleared Architectural design studio 9	Program: UG	Days:
Time:	Prerequisites: Students who have cleared Studio - Vi from Faculty of Design are eligible to register for this course	.....
Days:	Time:	....
.....	Days:	4050 - Thesis
....	.....	Credits: 15
1588 - Capstone Project	2533 - Thesis	Type: Guided Research
Credits: 15	Credits: 15	Instructor/s: Neeru Bansal
Type: Guided Research	Type: Guided Research	-
Instructor/s: Gauri Bharat	Instructor/s: Sanyogita Manu	Faculty: Planning
Independent design, research or advocacy project pursued by student	Research	Program: UG
Faculty: Architecture	Faculty: Design	Prerequisites: Only for B Plan students
Program: PG	Program: PG	Time:
Prerequisites: Should have completed all previous studios required by the program	Prerequisites: Should have completed all previous studios required by the program	Days:
Time:	Time:	.....
Days:	Days:	....
.....	.....	5056 - Thesis
....	.....	Credits: 15
2022 - Thesis	3032 - Capstone Project	Type: Guided Research
Credits: 15	Credits: 15	Instructor/s: C. B. Shah
Type: Guided Research	Type: Guided Research	The thesis program, aiming at introduction to research and to know tools of research. The thesis is offered with intentions of: (a) Imbibing an attitude towards research (b) To address the problems facing construction industry & thereby develop greater relevance of the academic program as well as Industry-Institute Interaction
		Faculty: Technology

<p>Program: UG</p> <p>Prerequisites: Students will be allowed to register for thesis with maximum one backlog course. Students who have more than one backlog course will not be allowed to register for thesis</p> <p>Time:</p> <p>Days:</p> <p>.....</p> <p>....</p>	<p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: Should have completed all previous studios required by the program</p> <p>Time:</p> <p>Days:</p> <p>.....</p> <p>....</p>	<p>Time:</p> <p>Days:</p> <p>.....</p> <p>....</p>
<p>5614 - Thesis</p> <p>Credits: 15</p> <p>Type: Guided Research</p> <p>Instructor/s: Jyoti Trivedi</p> <p>Research Thesis programme to complement the practical work abilities of students &amp; contribute to a higher professional competence and developing an attitude towards research.</p> <p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: Should have completed all previous studios required by the program</p> <p>Time:</p> <p>Days:</p> <p>.....</p> <p>....</p>	<p>5628 - Dissertation (IED)</p> <p>Credits: 15</p> <p>Type: Guided Research</p> <p>Instructor/s: Tushar Bose</p> <p>The objective of the dissertation is to study a topic of Student's choice within the realm of infrastructure (engineering design, planning, or management) in reasonable depth and write up a dissertation report at the end of it. The dissertation report will be of about 25,000–30,000 words.</p> <p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: Should have completed all previous studios required by the program</p> <p>Time:</p> <p>Days:</p> <p>.....</p> <p>....</p>	
<p>5625 - Thesis (SED)</p> <p>Credits: 15</p> <p>Type: Guided Research</p> <p>Instructor/s: Aanal Shah, Dhara Shah</p> <p>Student independently takes up one topic which might be analytical, software based, experimental or History. Students will give literature review of the topic identified. A schedule is set wherein students will give two more reviews and then submit the document for the internal checking. The document will then go to the external examiner and final jury is arranged. The submission is in the form of document, soft copy, synopsis, poster and a technical paper</p>	<p>5638 - Thesis</p> <p>Credits: 15</p> <p>Type: Guided Research</p> <p>Instructor/s: Anjana Vyas</p> <p>Research</p> <p>Faculty: Technology</p> <p>Program: PG</p> <p>Prerequisites: Should have completed all previous studios required by the program</p>	

# Transport

<p>4516 - Public Transport Planning</p>	<p>Days: Thursday</p>	<p>Prerequisites: All PG students</p>
<p>Credits: 2</p>	<p>4518 - Transport Planning &amp; Modelling</p>	<p>Time: 08.30-10.30</p>
<p>Type: Lecture</p>	<p>Credits: 2</p>	<p>Days: Friday</p>
<p>Instructor/s: Abhijit Lokre, Shivanand Swamy</p>	<p>Type: Lecture</p>	<p>..... ....</p>
<p>This course provides students with a sound understanding of the key issues affecting the planning, management and performance of public transport in cities. It covers different public transport (PT) modes, PT network planning principles, performance measurements and the various legislations governing the urban public transport sector.</p>	<p>Instructor/s: Shalini Sinha</p>	<p>4587 - Strategic Transportation Plan for a City</p>
<p>Faculty: Planning</p>	<p>This course provides a background to transport planning and its interface with land use planning. The students are provided with an understanding of transport data collection and analysis along with demand forecasting. The main areas covered will include an overview of the urban transport system, transport planning approaches, data requirements, travel demand modelling, calibration and forecasting.</p>	<p>Credits: 9</p>
<p>Program: PG</p>	<p>Faculty: Planning</p>	<p>Type: Studio</p>
<p>Prerequisites: All PG students</p>	<p>Program: PG</p>	<p>Instructor/s: Shalini Sinha, Nitika Bhakuni</p>
<p>Time: 14.30-16.30</p>	<p>Prerequisites: MURP students</p>	<p>The students will prepare a strategic transportation plan for a city which requires data collection with respect to land use, transport and socio economic characteristics of the case study city. Based on the existing situation analysis, they develop a long term vision for the city and propose alternative development strategies and appraise them to arrive at the most optimal set of land use transport proposals.</p>
<p>Days: Friday</p>	<p>Time: 16.30-18.30</p>	<p>Faculty: Planning</p>
<p>..... ....</p>	<p>Days: Monday</p>	<p>Program: PG</p>
<p>4517 - Transport Infrastructure Planning and Design - 1 (Optional core for even Infrastructure Planning Major)</p>	<p>..... ....</p>	<p>Prerequisites: MURP students</p>
<p>Credits: 2</p>	<p>4578 - Land use and Transport Planning (Theory)</p>	<p>Time: 10.30-13.30, 10.30-13.30, 10.30-13.30, 10.30-13.30</p>
<p>Type: Lecture</p>	<p>Credits: 2</p>	<p>Days: Monday, Wednesday, Thursday, Friday</p>
<p>Instructor/s: Abhijit Lokre</p>	<p>Type: Lecture</p>	<p>..... ....</p>
<p>This course presents students with a comprehensive overview of transport infrastructure planning and design. It focuses on street and intersection design, and the planning and design of infrastructure for easy mobility of pedestrians and cyclists. It covers all design and infrastructure aspects of city bus and BRT systems. It also deals with the design of terminals, depots, workshops, and turn-arounds.</p>	<p>Instructor/s: Talat Munshi, Rutul Joshi</p>	<p>5521 - Railways and Logistics (IED)</p>
<p>Faculty: Planning</p>	<p>This lecture course focuses on transport's interrelationship with the urban environment and the built form as a means to derive methodologies for planning transport systems and developing feasible alternatives to existing systems. Emphasis is also placed on developing insight into the transport phenomena and its multi-faceted aspects, the planning process and governance issues, societal and behavioural aspects of mobility, and accessibility analysis for wider social benefits.</p>	<p>Credits: 2</p>
<p>Program: PG</p>	<p>Faculty: Planning</p>	<p>Type: Lecture</p>
<p>Prerequisites: All PG students</p>	<p>Program: PG</p>	<p>Instructor/s: Anal Sheth, HS Duggal</p>
<p>Time: 08.30-10.30</p>		<p>This lecture course covers the basics of railway transport: planning, operation, and management aspects. Both freight transport and passenger travel, in regional and urban rail, are included, as well as the discussion of connectivity provided by the rail or road to ports. Evaluation is based on class participation and assignments.</p>

Faculty: Technology

Program: PG

Prerequisites: All PG students

Time: 14.30-16.30

Days: Monday

.....  
....

5548 - Traffic and Transport Engineering (IED)

Credits: 2

Type: Lecture

Instructor/s: Nishant Sheth

The objective of the course is to expose the students with traffic engineering. The course includes travel character analysis, methods of traffic survey and analysis of traffic data, analysis of capacity and understanding lane configuration and geometric design of roads and pavement design. The method of evaluation is through assignment and written exam.

Faculty: Technology

Program: PG

Prerequisites: All PG students

Time: 8.30-10.30

Days: Friday

.....  
....

5552 - Cities and Transport (IED)

Credits: 2

Type: Lecture

Instructor/s: Bhargav Adhvaryu

This course is divided into two modules. The objective the first module (Urban Planning) is to provide understanding of the various theories of urban planning and design, introduce basic concepts of how cities develop, review alternative urban development paradigms. The objective of the second module (Urban Transport Infrastructure) is to provide an introduction to urban transport infrastructure planning,

design, and management. Key concepts of urban transport planning and modelling will be covered, with a brief introduction to land use—transport interaction modelling. Assignments in the form of paper reviews will be given to cover specific topics that are discussed and debated the world over by academics and practitioners.

Faculty: Technology

Program: PG

Prerequisites: All PG students

Time: 14.30-16.30

Days: Wednesday

.....  
....

# Urban & Regional Planning

**4022 - Urban Infrastructure (Planning and Design)**

Credits: 2

Type: Lecture

Instructor/s: Saswat Bandyopadhyay, Subhrangsu Goswami, Tushar Bose

This lecture course familiarizes students with basics of urban water supply, waste water management, sanitation and solid waste management. Through theoretical concepts and relevant cases, it highlights a range of technical, and institutional issues and options in urban water and sanitation planning and implementation.

Faculty: Planning

Program: UG

Prerequisites: Only for B Plan students

Time: 14.30-16.30

Days: Tuesday

**4027 - Urban Governance and Planning**

Credits: 2

Type: Lecture

Instructor/s: Vanishree Herlekar

The principal objective of the course is to discuss the linkages between governance and planning, and highlight the importance of good governance policy and practice in achieving planning objectives of urban sustainability, efficiency and inclusiveness in rapidly urbanizing economies like India. The course will discuss citizenship, governance, government and the concept of state; linkages between good governance, public administration and planning; public administration and governance theories; linkages between human rights, development and governance; the evolution and constitutional basis of local governance in India; the existing institutional structures, rigidities and bottlenecks; rapid urbanization, globalization and governance challenges; decentralization, urban renewal and governance reforms in India; neo

liberal imperatives and the role of public , private and civil society in local governance. The pedagogy emphasizes critical discourses and discussions, through lectures, seminar papers, case presentations and institutional assessments of local bodies.

Faculty: Planning

Program: UG

Prerequisites: Only for B Plan students

Time: 14.30-16.30

Days: Wednesday

**4506 - Built Environment and Land Use Planning**

Credits: 2

Type: Lecture

Instructor/s: Sejal Patel, Rutul Joshi

This lecture course enables planners to understand, interpret, diagnose and plan the built environment. The course introduces theories and concepts that underpin land use and built environment planning, techniques and methods of planning at varying scales of settlements, legal and institutional framework that make plans feasible, and emerging issues in neoliberal economies such as urban regeneration, informalities and heritage conservation.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 14.30-16.30

Days: Monday

**4507 - Financing Urban Development**

Credits: 2

Type: Lecture

Instructor/s: Chandrima Mukhopadhyay, Dinesh Mehta, Meera Mehta

Finance is critical for urban development. There are various ways in which a government (national, state or local) raises and allocates funds for capital expenditure. The course aims to introduce concepts of public finance and project finance. Public finance topics would include discussions on national and state finance, inter governmental transfers, results based funding and municipal finance. Public Private Partnership projects are an integral part of urban infrastructure development. Students will learn the basic concepts of attracting private sector in public infrastructure delivery, arrangements of a PPP arrangement and learn which sectors have potential for PPP and how PPP is used in different sectors – e.g. roads, energy, and water.

Faculty: Planning

Program: PG

Prerequisites: All PG students and 4th year B. Plan.

Time: 14.30-16.30

Days: Thursday

**4508 - Fundamentals of Housing**

Credits: 2

Type: Lecture

Instructor/s: Darshini Mahadevia

This lecture course provides housing students with an understanding of basic issues relevant to housing such as concept of housing, housing economics (demand and supply), housing stress, and measuring housing shortage. The course will also introduce students to housing finance, institutions of finance and calculations of EMI. Lastly, it will introduce students to informal housing and incremental housing. It will also address historical review of housing policies globally and in India.

Faculty: Planning

Program: PG

Prerequisites: Basic course in economics & Bachelors students 4th year onwards

Time: 14.30-16.30

Days: Tuesday

.....  
....

#### 4509 - Infrastructure Sub-Systems

Credits: 2

Type: Lecture

Instructor/s: Neeru Bansal, Saswat Bandyopadhyay

Infrastructure Planning deals with several sub-sectors. This course attempts to expose the students with knowledge base related to various sub-sectors which is relevant for planning and management. Specifically the course would cover major subsectors of infrastructure like Highways, railways, ports, gas, industrial infrastructure, SEZs & SIRs, telecom & E infrastructure etc.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 16.30-18.30

Days: Tuesday

.....  
....

#### 4510 - Introduction to Environmental Planning

Credits: 2

Type: Lecture

Instructor/s: Ashwani Kumar, Rutool Sharma

Course will discuss environmental planning related concepts and issues in three broad parts: debates, quality assessment and planning approaches. First part of the course will involve discussion on key environmental debates and drawing contrary arguments. The second part will focus on profiling and assessment techniques such as indexing, mapping etc. Various approaches and framework for integrating environment in development practices will be discussed in third part of the course.

Faculty: Planning

Program: PG

Prerequisites: All PG students, UG students of 5th semester and onwards

Time: 16.30-18.30

Days: Tuesday

.....  
....

#### 4511 - Land Development and Management Practices

Credits: 2

Type: Lecture

Instructor/s: Madhu Bharti

The objective of this lecture course is to introduce the students to various land development concerns and processes. The course focuses on the Land development mechanism, process and tools as are used in India. The course would also focus on land laws and regulations, specifically those having impact on real estate development. The students would be exposed to various models of land development in developed as well as emerging economies. By the end of the course the students are expected to develop a critical understanding of various land development tools. This course will have case studies from India and elsewhere.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 08.30-10.30

Days: Friday

.....  
....

#### 4513 - Urban and Regional Infrastructure Planning

Credits: 2

Type: Lecture

Instructor/s: Saswat Bandyopadhyay, Subhrangsu Goswami

Because basic infrastructure in Indian cities has not been able to match with rapid urban

demographic growth, it is over-stressed. With a restricted resource base and poor institutional capacities, urban infrastructure development in India is a big challenge to planning professionals. In order to address this challenge, this lecture course provides students with a basic understanding of urban infrastructure services, approaches to planning, prioritization and management.

Faculty: Planning

Program: PG

Prerequisites: MURP students

Time: 08.30-10.30

Days: Wednesday

.....  
....

#### 4516 - Public Transport Planning

Credits: 2

Type: Lecture

Instructor/s: Abhijit Lokre, Shivanand Swamy

This course provides students with a sound understanding of the key issues affecting the planning, management and performance of public transport in cities. It covers different public transport (PT) modes, PT network planning principles, performance measurements and the various legislations governing the urban public transport sector.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 14.30-16.30

Days: Friday

.....  
....

#### 4517 - Transport Infrastructure Planning and Design - 1 (Optional core for even Infrastructure Planning Major)

Credits: 2

Type: Lecture

Instructor/s: Abhijit Lokre



This course presents students with a comprehensive overview of transport infrastructure planning and design. It focuses on street and intersection design, and the planning and design of infrastructure for easy mobility of pedestrians and cyclists. It covers all design and infrastructure aspects of city bus and BRT systems. It also deals with the design of terminals, depots, workshops, and turn-arounds.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 08.30-10.30

Days: Thursday

4518 - Transport Planning & Modelling

Credits: 2

Type: Lecture

Instructor/s: Shalini Sinha

This course provides a background to transport planning and its interface with land use planning. The students are provided with an understanding of transport data collection and analysis along with demand forecasting. The main areas covered will include an overview of the urban transport system, transport planning approaches, data requirements, travel demand modelling, calibration and forecasting.

Faculty: Planning

Program: PG

Prerequisites: MURP students

Time: 16.30-18.30

Days: Monday

4523 - Disaster Management

Credits: 2

Type: Lecture

Instructor/s: C.N. Ray

India is experiencing human and economic losses due to frequent natural and manmade disasters, whose frequency and intensity has been increasing at a faster rate in recent years. The generally argued causes for the same are increasing urbanization, industrialization and population growth. The broad aim of this course is to provide an exposure to the elements of disaster management, range of options available to local authorities, etc. The course will also provide enhanced understanding of community based approaches to disaster management covering mitigation, preparedness, response, rehabilitation and reconstruction.

Faculty: Planning

Program: PG

Prerequisites: PG students

Time: 16.30-18.30

Days: Friday

4524 - Environmental Infrastructure and Services

Credits: 2

Type: Lecture

Instructor/s: Ashwani Kumar, Mona Iyer

The infrastructure or services primarily required to achieve environmental safety and safeguard human health will be covered. The course will focus on such important infrastructure/services including treatment plants (sewage and effluent), solid waste, hazardous waste, E-waste and bio medical waste. The course is designed to cover principles of theory and practice for site characterization, system components' planning and design, best practices, technology options, cost considerations(capital and O&M), financing arrangements, implementation options (including PPP) and issues related to performance monitoring.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 16.30-18.30

Days: Friday

4525 - Environmental Legislations, Administration and Governance

Credits: 2

Type: Lecture

Instructor/s: C.N. Ray

This lecture course provides students with basic knowledge and approaches on rules and regulations related to environment from both international and national perspectives. The initial part of the course covers various legislation like Water Act, Air Act, and EP Act, and then illustrates their implementation through known environmental cases. The course also familiarizes participants with the administrative structure, and roles and powers, of various organizations and environmental institutions working in the environmental field.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 08.30-10.30

Days: Wednesday

4526 - Microfinance and Sustainable Livelihoods

Credits: 2

Type: Lecture

Instructor/s: Pratul Ahuja

This course is expected to enable students to develop a good understanding of the need and importance of microfinance, its delivery models, regulatory environment, role of technology and financial inclusion. The course would also discuss the wide range of microfinance 'plus' approaches and examine how they can contribute to ensuring sustainable livelihoods for the poor.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 14.30-16.30

Days: Tuesday

.....  
....

**4530 - Environmental & Social Safeguards in Infrastructure and Development Projects**

Credits: 2

Type: Lecture

Instructor/s: Subhrangsu Goswami

There is a growing awareness that benefits of any infrastructure or development project should not be negated by externalities, particularly those caused by the environmental consequences of the project. Therefore the primary objective of this course is to provide required knowledge and skills to the students, to make them capable of developing environmental and social safeguards for infrastructure and development projects, so that the environmental and social impacts can be eliminated or minimized to acceptable level by integrating environmental and social aspects during planning, design, construction, operation and management of any infrastructure and development project.

Faculty: Planning

Program: PG

Prerequisites: FP (PG & UG) FM (PG)

Time: 16.30-18.30

Days: Wednesday

.....  
....

**4535 - Sustainable Urban Transport**

Credits: 2

Type: Lecture

Instructor/s: Nitika Bhakuni

This course focuses on the relationship between transport and the environment and introduces the concept of sustainability and the policies adopted worldwide to promote sustainable mobility. Taking sustainability as the key issue the course will develop students understanding in undertaking environmental

assessments and developing environment management plans.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 14.30-16.30

Days: Wednesday

.....  
....

**4536 - Development Innovations**

Credits: 2

Type: Seminar

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 sets of 'inclusive development 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 for all, and c) Inclusive cities with better and universal access to public spaces and basic services. The course enables learning by reading and discussions, rather than lectures.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 14.30-16.30

Days: Wednesday

.....  
....

**4577 - Theory of Urbanization and Cities**

Credits: 2

Type: Lecture

Instructor/s: Anil Roy

This course aims to bring in conceptual understanding of urban, urbanism, and the process of urbanization with reference to the third world countries. Urbanization, urban

growth, urban process in third world and developing countries will form major areas of discussions. The theories of city structures will be discussed thoroughly and their relevance and applications can be explored taking examples of cities in transitional economy. The trends and pattern of urbanisations, its consequences and related dimensions of urban areas will be discussed at length during the sessions. The challenges and opportunities provided by the process of urbanization to the planning education and profession need to be understood while presenting the cases of urban planning practices from less-developing countries and particularly from India.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 08.30-10.30

Days: Tuesday

.....  
....

**4578 - Land use and Transport Planning (Theory)**

Credits: 2

Type: Lecture

Instructor/s: Talat Munshi, Rutul Joshi

This lecture course focuses on transport's interrelationship with the urban environment and the built form as a means to derive methodologies for planning transport systems and developing feasible alternatives to existing systems. Emphasis is also placed on developing insight into the transport phenomena and its multi-faceted aspects, the planning process and governance issues, societal and behavioural aspects of mobility, and accessibility analysis for wider social benefits.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 08.30-10.30

Days: Friday

.....  
....

**4579 - Settlements in Transition: Rural-Urban Interactions**

Credits: 2

Type: Lecture

Instructor/s: Ravi Sannabhadti, Anurima Mukherjee Basu

Rapid urbanization contexts pose a challenge to planning of settlements in transition, which exhibit both urban and rural characteristics. These transitional areas, in the form of census towns, peri-urban areas or outgrowths of large urban centres, are dynamic both in terms of their spatial spread and their changing characteristics. Most official policies focus on either the rural or urban areas; lacking an approach to such 'trishanku' (middle world) areas, thus posing peculiar problems of jurisdictional domains and governance. This course intends to develop an understanding of the spread, inter-linkages, nature, characteristics and the challenges of governing such transitional areas. The course will be delivered through extensive readings, case studies, hands-on exercises and field based explorations.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 08.30-10.30

Days: Thursday

.....  
....

**4580 - Housing and Community Development**

Credits: 2

Type: Lecture

Instructor/s: Ravi Sannabhadti, Bhuvana S.

"Housing", 'community development' and 'livelihoods' are seemingly disparate themes. This course seeks to explore and develop an understanding of the inter-relationship between these and challenges involved in the process. The pedagogy would rely on case study method with a particular focus on informal housing.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 16.30-18.30

Days: Monday

.....  
....

**4581 - Urban Environment**

Credits: 2

Type: Lecture

Instructor/s: Minal Pathak, Subhrangsu Goswami

Sustainable management of the urban environment has become one of the major challenges of this century. This development necessitates managing environmental impacts of urbanization including congestion, deteriorating air and water quality, waste and growth in energy and resource consumption. This course equips students to understand the dynamics of human-environment relations in urban areas using a multidisciplinary perspective. Looking at key concepts, policies, programs and successful best practices, it will equip students with solutions for planning sustainable urban futures.

Faculty: Planning

Program: PG

Prerequisites: All PG students, UG students, 3rd year onwards

Time: 08.30-10.30

Days: Monday

.....  
....

**4582 - Climate Change and Cities I**

Credits: 2

Type: Lecture

Instructor/s: Minal Pathak

Climate change is a significant challenge for cities as these are increasingly faced with the burden 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. The course will introduce climate change and its implications for cities. Using case studies of global cities in developing and developed countries, the course highlights climate compatible urban planning and management solutions.

Faculty: Planning

Program: PG

Prerequisites: All PG students, UG students, 4th year onwards

Time: 16.30-18.30

Days: Thursday

.....  
....

**4583 - Land Use Planning Studio**

Credits: 9

Type: Studio

Instructor/s: Bimal Patel, Sejal Patel, Rutool Sharma, Talat Munshi, Bhargav Adhvaryu, Vatsal Patel

Urban development plan studio intends to enable a planner to understand, interpret, diagnose and plan built environment at the scale of a city/ town/ settlement. The lab thus intends to introduce interpretation and representation tools, methods to develop criteria to review and critique plans for just, sustainable and efficient settlements.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

**4584 - Housing Strategy**

Credits: 9

Type: Studio

Instructor/s: Vanishree Herlekar

This component will work out housing strategy for the main development plan of the city/ town.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

**4585 - City Infrastructure Prioritization Studio**

Credits: 9

Type: Studio

Instructor/s: Saswat Bandyopadhyay

City Infrastructure Planning involves several subsectors and institutions engaged in planning, designing, delivery and management of infrastructure services. This studio intends to develop a detailed understanding of how city level infrastructure planning norms and regulations, demand assessment and projects, prioritization of Infrastructure and Investment outlines. Participants will work in teams to deal with macro to micro as well as sectorial issues and develop an integrated perspective of City Infrastructure Planning.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

**4586 - Environmental Planning Studio**

Credits: 9

Type: Studio

Instructor/s: Ashwani Kumar

The studio in urban environmental focus to analyze the issues on related to natural, physical, social, amenity ranging from air, industrial pollution to degradation of water systems including river/lake/groundwater etc. to waste using the various approaches such as pollution reduction ecological, resources bioregion or sensitive areas conservation, zoning and land use planning. The studio also encourages employing tools and methods of environmental information, thematic mapping, trends, environmental hotspots, environmental indices, spatial multi-criteria evaluation etc.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

**4587 - Strategic Transportation Plan for a City**

Credits: 9

Type: Studio

Instructor/s: Shalini Sinha, Nitika Bhakuni

The students will prepare a strategic transportation plan for a city which requires data collection with respect to land use, transport and socio economic characteristics of the case study city. Based on the existing situation analysis, they develop a long term vision for the city and propose alternative development strategies and appraise them to arrive at the most optimal set of land use transport proposals.

Faculty: Planning

Program: PG

Prerequisites: MURP students

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

Days: Monday, Wednesday, Thursday, Friday

.....  
....

**4589 - Metropolitan Governance**

Credits: 2

Type: Lecture

Instructor/s: Chandrima Mukhopadhyay

Students will learn about theoretical concepts on metropolitan governance, including debates on conflict, cooperation and competition, and models like institutional collective action. In the second module, students will look into the practice of metropolitan governance across countries like the North America, Europe, Latin America, South Africa and Asian countries. The third module covers and elaborates on specific examples in the Indian context.

Faculty: Planning

Program: PG

Prerequisites: PG (FP and FM) and 3rd and 4th year B. Plan students

Time: 08.30-10.30

Days: Monday

.....  
....

**4590 - Public Private Partnership in Infrastructure Projects**

Credits: 2

Type: Lecture

Instructor/s: Bhaskar Subramaniam, Saswat Bandyopadhyay

PPP in infrastructure projects aims to harness the potential of the private sector to deliver infrastructure in terms of increased efficiencies, deferred payment for infrastructure as well as ensuring the involvement of private sector in the operations and maintenance of the infrastructure asset.

Faculty: Planning

Program: PG

Prerequisites: All PG students

Time: 16.30-18.30

Days: Wednesday

.....  
....

**4591 - Water Resource Modelling**

<p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: S. S. Rao</p> <p>The theoretical aspects of the Water Resources is being taught in many engineering colleges, but the modern applications and the modelling techniques of the same are least dealt with. The modelling techniques are far more important and urgently required to deal with various practical aspects of water resources and their applications for the day to day tasks and project the effects of the same over the next 30 to 40 years. An attempt is made to develop a short course on Modelling in Water resources with maximum free software available globally and develop suitable models for practical purposes.</p> <p>Faculty: Planning</p> <p>Program: PG</p> <p>Prerequisites: All PG students</p> <p>Time: 16.30-18.30</p> <p>Days: Thursday</p> <p>.....</p> <p>.....</p> <p>4592 - Sustainability Pathways and Urban Ecology</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Jennifer Pierce, Mansi Shah</p> <p>Sustainability Pathways and Urban Ecology starts with a theoretical understanding of the leading discourses in sustainability from an urban perspective. Then we will use these discourses as lenses to interpret the ecological aspects of city function, especially ecosystem services.</p> <p>Faculty: Planning</p> <p>Program: PG</p> <p>Prerequisites: All PG students, 7th Sem. onward UG students</p> <p>Time: 14.30-16.30</p> <p>Days: Friday</p>	<p>.....</p> <p>.....</p> <p>4593 - Culture, Climate and Built Environment</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Melissa Smith</p> <p>This course explores factors of the climatic and cultural context to which designers of the built environment respond, at the scale of the building, neighborhood and city. Form-driving elements, both physical and social, are studied alongside a series of case studies that encompass traditional dwelling formation, historical design methods, twentieth century approaches, and the current situation of dwellings and settlements in India.</p> <p>Faculty: Planning</p> <p>Program: PG</p> <p>Prerequisites: All PG students, 4th and 5th year UG students</p> <p>Time: 14.30-16.30</p> <p>Days: Tuesday</p> <p>.....</p> <p>.....</p> <p>4594 - Urban Environmental Design</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Jennifer Pierce, Mansi Shah</p> <p>This course will look comparatively at design elements of urban fabric from around the world, including streets, public spaces, and building mass. Students will investigate the repercussions of the physical aspect of the urban realm on social, environmental, and economic elements. They will also explore the role of the planner and the environment in shaping cities. The course will include lectures, activities, and discussions. Students will each select a particular city on which to focus, and will work in groups to gain comparative perspectives.</p> <p>Faculty: Planning</p> <p>Program: PG</p>	<p>Prerequisites: All PG students or 7th semester onwards UG students</p> <p>Time: 16.30-18.30</p> <p>Days: Wednesday</p> <p>.....</p> <p>.....</p> <p>4595 - Advanced GIS</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Anjana Vyas, Darshana Rawal</p> <p>This course is designed to advance student's knowledge in the field of Applications of Geographic Information Systems (GIS). GIS provides a means of integrating information that help us understand and address issues, problems and challenges of the day, to name a few, rapid urbanization, spread of diseases, land use changes, land degradation and impacts of climate change. Important principles and concepts of GIS are expanded beyond those introduced in GIS course offered during first semester with hands-on experience in one or more specific GIS software packages. Emphasis will be placed on concepts and spatial reasoning of the analysis techniques along with the skill development. The subject aims to bring the understanding among the students in GIS functionality, methodology for implementing the technology, and its potential usefulness in geographic and environmental studies.</p> <p>Faculty: Planning</p> <p>Program: PG</p> <p>Prerequisites: Introductory knowledge on GIS required</p> <p>Time: 14.30-16.30</p> <p>Days: Monday</p> <p>.....</p> <p>.....</p> <p>4596 - Professional Practice for Planners</p> <p>Credits: 2</p> <p>Type: Lecture</p> <p>Instructor/s: Sejal Patel, Saswat Bandyopadhyay, C.N. Ray</p>
---	--	---

The course has been broadly divided in two parts. One, on learning about the preparation of various kinds of proposals, usually prepared in planning related fields, and the other, related to set of laws and Acts directly affect the urban development, housing and environment.

Faculty: Planning

Program: PG

Prerequisites: Only for MURP Thesis Students

Time: 16.30-18.30, 16.30-18.30, 16.30-18.30, 16.30-18.30, 16.30-18.30

Days: Monday, Tuesday, Wednesday, Thursday, Friday

.....  
....

# Visual Communication and Performing Arts

## 1040 - Ceramics/Sculpture

Credits: 2

Type: Workshop

Instructor/s: Snehal Kashikar

The course develops material discipline in students through workshop-based assignments. The practice in clay focuses on the understanding of the intrinsic value of the material, its natural language and aesthetics.

Faculty: Architecture

Program: UG

Prerequisites: Open for all (2 batches of 25 students each Monday and Thursday)

Time: 14.30-18.30

Days: Monday, Thursday

.....  
....

## 1056 - How to Look at Art

Credits: 2

Type: Lecture

Instructor/s: Esther David

This course 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. It will help students to develop a larger interest in the visual arts, based on their own preferences, aptitude and experiences. It 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: UG

Prerequisites: Open for all

Time: 14.30-16.30

Days: Friday

.....  
....

## 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 in Digital Photographic methods only. The student is expected to know basic image processing methods on the computer. The course includes tuition in understanding all aspects 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 practising, one masters. Photography being very technical in its operational sense, it's extreme sensoriality in its visual sense is what that will be explored.

Faculty: Architecture

Program: UG

Prerequisites: Open for UG students 2nd year level onwards, DSLR camera is required

Time: 14.30-18.30

Days: Wednesday

.....  
....

## 1087 - Sculpture

Credits: 2

Type: Workshop

Instructor/s: Mayur Gupta

This workshop based course intends to introduce students to basic concepts and details in sculptures. A range of material such as metal, wood and clay will be introduced and students will be encouraged to develop ideas for creative expression in each session. The emphasis will be on fundamental techniques of working with material, handling of tools and giving shape to concepts. The sessions will be intense and will involve hands on work and lot of drawing.

Faculty: Architecture

Program: UG

Prerequisites: Open for all FA and FD Students

Time: 14.30-18.30

Days: Friday

.....  
....

## 1088 - Figurines in Clay

Credits: 2

Type: Workshop

Instructor/s: Snehal Kashikar

This is a workshop based course that explores sculptural skills of students using ceramics as a medium. The subject of expression will mainly be human and animal figures. Students will also learn to build armature in ceramic sculpture. Ancient civilizations celebrate making clay figurines in the form of votives, mask, gargoyles, toys. In contemporary art, it is seen metaphorically as a representation of our thoughts.

Faculty: Architecture

Program: UG

Prerequisites: Open for all

Time: 14.30-18.30

Days: Friday

.....  
....

## 2028 - Exploring Space-Sketching

Credits: 2

Type: Workshop

Type: Workshop

Instructor/s: Rajesh Sagara

Instructor/s: Rajesh Sagara

The course exposes the students towards reading and representing interior spaces through freehand drawing in various mediums like charcoal to water colour.

This workshop is based on the exploration of different spatial configurations through freehand drawing and sketching. It sharpens the skills of observation through the recording of different types of spaces with respect to their scale, volume, form, materials and finishes.

Faculty: Design

Program: UG

Faculty: Design

Prerequisites: Students who have cleared Basic Design - I from the Faculty of Design are eligible for the course

Program: UG

Time: 08.30-10.30, 08.30-10.30

Prerequisites: Open for all

Days: Monday, Thursday

Time: 14.30-18.30

Days: Friday

.....  
....

.....  
....

### 2054 - Sculpture

Credits: 2

Type: Workshop

Instructor/s: Rajesh Sagara

This course aims at engaging the tactile and visual senses to shape material into different forms, thus enabling the students to give tangible form to their ideas. It also aims at honing hand skills and understanding the different properties of materials, not only to generate three dimensional forms but also to achieve interesting textures, finishes and details. Choosing between wood and metal as the medium, this course trains the students in different techniques, methods and process involved in sculpting these materials.

Faculty: Design

Program: UG

Prerequisites: Open for all

Time: 14.30-18.30

Days: Wednesday

.....  
....

### 2076 - VR-II- Drawing Interior Spaces

Credits: 2



# Workshop

## 1033 Joinery in Building Elements

**Credits:** 3

**Type:** Workshop

**Instructor/s:** Sankalpa, Krunal Patel, Vicky Achnani, Tanvi Jain

The workshop course undertakes a series of hands on exploration into making of joinery in different material. It systematically then builds on this exploration with theoretical lectures on material-joinery relationship and brings out their element making ability. The course also gives an outline of the building elements classified according to sequence of construction, location of elements (internal/ external), role in load transfer (load bearing/non load bearing; horizontal/ vertical) and resource use.

**Faculty:** Architecture

**Program:** UG

**Prerequisites:** Should be a registered student of FA-UG

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

**Days:** Thursday, Thursday

## 1038 Building Elements II

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Mona Khakhar, M.C.Gajjar

This workshop course focuses on the service aspect of the building (e.g. water supply and drainage, electrical, fire protection, lifts etc.) through site studies and addressing the drawing details in construction with necessary theoretical lectures. The Students are also exposed to traditional construction practices as well as current construction methods and materials for lateral loads.

**Faculty:** Architecture

**Program:** UG

**Prerequisites:** Open to FA,FD, and FT UG students who have cleared either the subject

Joinery in Building Elements offered in FA-UG or one course in construction

**Time:** 14.30-18.30

**Days:** Tuesday

## 1040 Ceramics/Sculpture

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Snehal Kashikar

The course develops material discipline in students through workshop-based assignments. The practice in clay focuses on the understanding of the intrinsic value of the material, its natural language and aesthetics.

**Faculty:** Architecture

**Program:** UG

**Prerequisites:** Open for all (2 batches of 25 students each Monday and Thursday)

**Time:** 14.30-18.30

**Days:** Monday, Thursday

## 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 in Digital Photographic methods only. The student is expected to know basic image processing methods on the computer. The course includes tuition in understanding all aspects 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 practising, one masters. Photography being very technical in its operational sense, it's extreme sensoriality in its visual sense is what that will be explored.

**Faculty:** Architecture

**Program:** UG

**Prerequisites:** Open for UG students 2nd year level onwards, DSLR camera is required

**Time:** 14.30-18.30

**Days:** Wednesday

## 1082 Poetics of Material: Bamboo

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Sankalpa

The course outlines a journey to bring about various facets of bamboo as a form giving material. This workshop course will dwell upon the idea of hands on exploration with theoretical input as a way to discuss joinery, components, systems and eventually a building language that develops out of it. In the process of exploration, students will learn to select or reject their derived form based on the various tasks that it can perform, structural stability and meaning that it can communicate. It would also bring about questions of technology, cultural and societal perception of material, the challenges it faces in the current scenario and a way forward into the future.

**Faculty:** Architecture

**Program:** UG

**Prerequisites:** Open for FA and FT UG Students till third year level

**Time:** 14.30-18.30

**Days:** Wednesday

## 1085 Drama Games

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Rakesh Semwal

The aim of the elective is to introduce students to a variety of drama & theatre games, improvisations and to tap their confidence. Drama games go beyond the theatrical and dramatic boundaries, it nurtures skills and attitudes that are useful in every aspect of learning and living everyday life. The course will be a process of 'play and drama' of a group of drama games at its core by using the three essentials of drama games design: focus, side-coaching and evaluation

**Faculty:** Architecture

**Program:** UG

**Prerequisites:** Open for all

**Time:** 14.30-18.30

**Days:** Friday

**1089 Deployable System:  
Collapse-Transport-Reinstate**

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Aditya Patel, Krunal Patel

A system of assembly with mechanical joinery detail which allows it to transform into different forms, sizes and shapes as per the requirement can be called a deployable system. The intent of this workshop is to develop an understanding of the basic alphabets of various deployable systems through a few exercises. The workshop aims to explore different possibilities in which a deployable system can be applied to various design fields and use it to its advantage through models. It also intends to come up with a few selected designs being actually executed as prototypes..

**Faculty:** Architecture

**Program:** UG

**Prerequisites:** Open for all

**Time:** 14.30-18.30

**Days:** Wednesday

.....  
....

**2028 Exploring Space-Sketching**

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Rajesh Sagara

This workshop is based on the exploration of different spatial configurations through freehand drawing and sketching. It sharpens the skills of observation through the recording of different types of spaces with respect to their scale, volume, form, materials and finishes.

**Faculty:** Design

**Program:** UG

**Prerequisites:** Open for all

**Time:** 14.30-18.30

**Days:** Friday

**2039 Furniture Design - II**

**Credits:** 4

**Type:** Design Workshop

**Instructor/s:** Komal Dighe, Nikhil Aggarwal

This studio, through exercises and a design problem, attempts to understand the relationship of form, materials, space and development of dimensions in the design of furniture. A critical understanding of the evolution of form in furniture involving these specifics further develops the critical appreciation of furniture pieces.

**Faculty:** Design

**Program:** UG

**Prerequisites:** Students who have cleared Furniture Design - I from the Faculty of Design are eligible for the course.

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

**Days:** Monday, Thursday

.....  
....

**2074 Basic Design-II**

**Credits:** 6

**Type:** Studio

**Instructor/s:** Krishna Shastri, Shruti Tamboli, Henry Skupniewicz, Rishav Jain, Aditi Vashisht

This studio discusses interior spaces and builtforms, understood through solid and void relationship. It will also focus on spatial, architectural and interior elements. It helps understanding of spatial relationships between architectural principles, elements and their systems, scale, light and movement. It explores relationship between spatial, architectural and interior elements and their impact on layouts and space planning relationships.

**Faculty:** Design

**Program:** UG

**Prerequisites:** Students who have cleared Basic Design - I from the Faculty of Design are eligible for the course

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

**Days:** Monday, Wednesday, Friday

**2085 Drawing to Design**

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Hamid Raj

The course is structured to help students who find difficulty in translating ideas into drawings. The exploration hones drawing skills through structured exercises from simple & basic drawings to and the process of design. The method of practise as a basis for improvement is the process of learning for this course.

**Faculty:** Design

**Program:** UG

**Prerequisites:** First year UG students of Design and Architecture

**Time:** 14.30-18.30

**Days:** Tuesday

.....  
....

### 2088 Textile in Interiors

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Malavi Choudhary (Fakira)

The course introduces the students to the use of textile in interiors. The course develops an understanding of textiles with focus on raw material, processes of weaving as well as understanding leading to evaluation of strength of textiles as a material in interiors. It explores technical understanding with a view towards appropriate use of textiles in interior.

**Faculty:** Design

**Program:** UG

**Prerequisites:** Open for all

**Time:** 14.30-18.30

**Days:** Friday

.....  
....

### 2089 Origami Forms in Clay

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Snehal Kashikar

This is a workshop based course that explores forms of paper origami in clay. The workshop will introduce students to basic ceramic techniques and processes. Students will develop clay structures from folded paper models. The transformation of a paper model into fired ceramic sculpture offers students an opportunity to understand form building and material response of clay.

**Faculty:** Design

**Program:** UG

**Prerequisites:** Open for all

**Time:** 14.30-18.30

**Days:** Wednesday

.....  
....

### 2091 Metal Workshop

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Niyati Patel

\* Types of metals, properties of metals, definitions of terms with reference to properties and uses of metals, various methods of working with metals, fixing and joinery in metals, finishing and treatment of metals, finishes on metals, standard specifications.

\* Metals in 'Built form' activity - horizontal, vertical and inclined surfaces - in interior environment elements - products and furniture forms-doors, windows, jalties, railing, stairs, etc. \* Metals and other materials - forms and joinery.

**Faculty:** Design

**Program:** UG

**Prerequisites:** Open for all

**Time:** 14.30-18.30

**Days:** Friday

.....  
....

### 2092 Screen Printing

**Credits:** 2

**Type:** Workshop

**Instructor/s:** Rajesh Sagara

The course is designed to study silk screen printing methods with an emphasis to explore elements of visual language. Students create individual printable designs and work on paper and fabric surfaces to create multicolor screen printed images. Techniques including stencil making methods, direct approaches and photo emulsion will be used.

**Faculty:** Design

**Program:** UG

**Prerequisites:** Open to 2<sup>nd</sup> year and above level students

**Time:** 14.30-18.30

**Days:** Monday

.....  
....

.....  
....

### 2516 Generative Design Process - II

**Credits:** 3

**Type:** Workshop

**Instructor/s:** Jwalant Mahadevwala, Krishna Shastri

The research methodology of the design studio will focus on exploring a system to develop a spatial, structural and material organisation, taking into account computation logic and materialization in the field of Interior Architecture . The studio project will aim at designing such a system to achieve multiple scenarios as output which can be tested to varied conditions, like altering environments, context or even changing program. The system should be designed to respond to multiple scenarios through experimentation and exploration of computational and material prototyping which will act as both an analytical methodology and the prime mode of design production and representation.

**Faculty:** Design

**Program:** PG

**Prerequisites:** Students who are currently registered in semester IX or above in a UG program at FD or FA, or in a PG program at FD, FA

**Time:** 8.30-10.30, 14.30-18.30

**Days:** Tuesday, Tuesday

.....  
....

### 5066 Tribal Art

**Credits:** 2

**Type:** Design Workshop

**Instructor/s:** Soha Trivedi

Learning of different Tribal Arts like Warli, Madhubani, Mithila Shaili, Mud & Mirror. Applying this Art on different Materials like paper, silk cloth and objects like T-shirt, pots, lamps etc.

**Faculty:** Technology

**Program:** UG

**Prerequisites:** Open to all

**Time:** 16.30-18.30, 16.30-18.30

**Days:** Monday, Friday

.....  
....

**5099 Building Information Modeling**

**Credits:** 2

**Type:** Lecture

**Instructor/s:** Viral Bhatt

The objectives of this course are: (1) to provide an understanding of BIM processes and benefits (2) to enable students to carry out a project using BIM software for Modeling, Coordination, Clash Detection and Simulation (3) to upgrade students with Presentation Skills using BIM

**Faculty:** Technology

**Program:** UG

**Prerequisites:** Students who have cleared 1st year from any Faculty

**Time:** 14.30-16.30

**Days:** Wednesday

.....  
....