

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

BOARD OF STUDIES MEETING
May 2021

DEPARTMENT OF ARCHITECTURE

Contents

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Table 1 : Courses where revision was carried out

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Total No. of Courses offered during July-December 2021 Session	Revision of Syllabus Carried out (No. of Courses & Course Details)	% of Courses where syllabus revision was done	% change in syllabus from existing	Item/Agenda No.	Pg. No.
31	Architectural Design – I (210311)	Change in Examination Scheme	15%	10	18
	Building Construction (210312)	Change in Examination Scheme	15%	10	18
	Graphics – III (210313)	Change in Examination Scheme	15%	10	18
	Surveying & Leveling (210314)	Change in Examination Scheme	15%	10	18
	History of Architecture-III (210315)	Change in Examination Scheme	5%	10	18
	Structure III (210316)	Change in Examination Scheme	5%	10	18
	Biology for Architects (210310)	Change in Examination Scheme	5%	10	18
	Professional Training (210901)	Change in Examination Scheme and Credits	-	-	2

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Table 2 : New courses added

Total No. of Courses offered during July-December 2020 Session	Total No. of New courses added	Name of New courses added	Agenda/ Item No.	Pg. No.
31	11	Culturally responsive built environment (210551)	6	5
		Visual Communication Design for Digital Media (210553)	6	5
		Role of Craft and Technology in Interior - Architecture (210552)	6	5
		Design Thinking - A primer (210554)	6	5
		Glass in buildings: Design and Applications (210754)	2	5
		Urban Land Use and transportation planning (210752)	2	5
		Urban governance and Development Management (UGDM) (210753)	2	6
		Glass in buildings: Design and Applications	14	9
		Introduction to Multimodal Urban transport system (MUTS)	14	9
		PhotoJournalism	14	9
		Film Appreciation	14	9

Table 3 : Courses focusing on employability/entrepreneurship/skill development

Total No. of Courses offered during July-December 2020 Session	Total No. of Courses focusing on employability /entrepreneurship/skill development	Name of Courses focusing on employability/entrepreneurship/skill development	Agenda/Item no.	Pg. No.
31	11	Graphics III (210303),	-	54
		Regional Responsive Architecture (210514)	1	5
		Human Settlement (210511)	2	88
		Space Architecture Design (210515)	1	5
		Architectural Conservation & Historic Preservation (210513)	1	5
		Interior Design (210512)	1	5
		Estimating and Costing & Specification (210704)	-	114
		Professional Training (AR901)	-	117
		Culturally responsive built environment (210551)	6	5
		Visual Communication Design for Digital Media (210553)	6	5
		Role of Craft and Technology in Interior - Architecture (210552)	6	5
		Design Thinking - A primer (210554)	6	5
		Glass in buildings: Design and Applications (210754)	2	11
		Urban Land Use and transportation planning (210752)	2	9

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		Urban governance and Development Management (UGDM) (210753)	2	7
		Glass in buildings: Design and Applications	14	9
		Introduction to Multimodal Urban transport system (MUTS)	14	9
		PhotoJournalism	14	9
		Film Appreciation	14	9
		Inclusive Urban Planning (Elective-I) (670311)	-	153
		Planning for Tourism (Elective-I) (670312)	-	153
		Environment, Development & Disaster Management (Elective-II) (670313)	-	153
		Energy, Climate Change & Urban Development (Elective-II) (670314)	-	154
		Seminar (670303)	-	154
		Pre-Dissertation (670304)	-	154

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DEPARTMENT OF ARCHITECTURE

Minutes of the meeting of Board of Study of Architecture Department Meeting

The meeting of Board of Studies of Architecture is held on 7th June 2021 at 11.30 AM on GOOGLE MEET - meet.google.com/mee-xpru-rvp

Meet recordings

<https://drive.google.com/file/d/1TfsjodyBWi2NTdNsuviyneGjeBKV0c8Y/view?usp=sharing>

The following members were present-

1. **Dr. Manmohan Kapshe**, Professor, Department of Architecture and Planning, MANIT, Bhopal, Subject experts from outside the parent university (RGPV) BoS Member
2. **Dr. Vasudha Gokhale**, Professor, Department of Architecture, BNCA, Pune M.S. Subject experts from outside the parent university (RGPV) BoS Member
3. **Dr. Sanjiv Singh**, Professor, School of Planning and Architecture Bhopal Madhya Pradesh (M.P.), nominee -honorable Vice – chancellor, RGPV BoS, Member
4. **Dr. Sandip Sankat**, Asso Professor, SPA, Bhopal
5. **Dr. Archana Tiwari**, Professor, Department of Civil MITS, Gwalior- Special Invitee
6. **Dr. A. S. Patil**, Asso Professor & Head, Department of Architecture MITS, Gwalior
7. **Dr. S. S. Jadon**, Professor, Department of Architecture MITS, Gwalior
8. **Dr. Sanyan Bahga**, Asst. Professor, Department of Architecture MITS, Gwalior
9. **Ar. Versha Sinha**, Asst. Professor, Department of Architecture MITS, Gwalior
10. **Ar. Ankit Kumar**, Asst. Professor, Department of Architecture MITS, Gwalior
11. **Ar. Shweta Singh**, Asst. Professor, Department of Architecture MITS, Gwalior
12. **Ar. Apurva Tomar**, Asst. Professor, Department of Architecture MITS, Gwalior

The minutes of the previous BoS meeting held on were confirmed and the following agenda points were discussed with the committee members and are submitted for approval.

The new scheme of B. Architecture course and detailed syllabus up to Second year (IV Semester) is

discussed and recommended for consideration. Salient feature of the proposed scheme are as follows:-

1. The new scheme of examination (up to IV Semester) is proposed for batches admitted in 2020.
2. Considering the online mode of teaching and university norms for examination, it is proposed to incorporate student's internal (regular) performance in calculating the End Term theory marks as proficiency in the said subject.
3. All the modes of examination and teaching are specified in the proposed scheme of examination.
4. Skill based mini projects are incorporated with the STUDIOS.
5. Novel engaging courses are also being incorporated in III & IV Semester with 1 credit each semester.
6. Biology for Architects in III Semester and Indian Constitution in IV Semester are mandatory audit courses and students opting the same will receive relative grading and a special mention in their mark sheets.
7. For the subject Intellectual Property Rights, a mandatory course earlier approved by BOS for VII semester, a detailed syllabus is prepared and the code of the subject is changed from 100008 to 210707.

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8. Elective subject list which are to be opted from SWAYAM/ NPTEL platform for July- Dec 2021 session is prepared for each 3rd year (V semester) and 4th year (VII semester)
9. No change in the scheme and syllabus is proposed but Course Outcomes are added in the Master of Urban Planning syllabus.
10. The Scheme for IX & X semester for CBCS is proposed for the batch admitted in 2017-18.

Agenda of the BoS

Item 1:	<p><i>To propose the list and syllabi for all Departmental Elective (DE) Courses of V Semester under the flexible curriculum along with their COs (Batch admitted in 2018-19).</i></p> <p>The list and syllabi for all Departmental Elective (DE) Courses of V Semester is offered to the batch admitted in 2019-20) under the flexible curriculum.</p> <p>a. Interior Design (210512) b. Architectural conservation and historic preservation (210513) c. Regionally Responsive Architecture (210514) d. Space Architectural Design (210515)</p> <p><u>Annexure-1- Detailed syllabus</u></p>																													
Item 2:	<p><i>To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC Platform, to be offered in online mode under Departmental Elective (DE) category, for credit transfer in the VII Semester (Batch admitted in 2018-19).</i></p> <p>The list of Courses from SWAYAM/NPTEL/MOOC Platform to be offered (for batch admitted in 2018-19) in online mode under Departmental Elective (DE) Courses for credit transfer in the VII Semester {applicable during January-June 2021 academic session} attached.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 10%;">Subject Code</th> <th style="width: 25%;">Subject name</th> <th style="width: 15%;">Coordinating Institute</th> <th style="width: 10%;">Registration date</th> <th style="width: 10%;">Duration of course</th> <th style="width: 30%;">Faculty mentor</th> </tr> </thead> <tbody> <tr> <td>210752</td> <td>Urban Land use and transportation planning</td> <td>IIT Kharagpur</td> <td>02 Aug 2021</td> <td>12 weeks</td> <td>Ar. Harshita Mishra</td> </tr> <tr> <td>210753</td> <td>Urban governance and Development Management</td> <td>IIT Roorkee</td> <td>02 Aug 2021</td> <td>12 weeks</td> <td>Ar Richa Mishra</td> </tr> <tr> <td>210754</td> <td>Glass in buildings : Design and applications</td> <td>IIT Madras, IIT Roorkee</td> <td>02 Aug 2021</td> <td>12 weeks</td> <td>Ar. Shweta Singh</td> </tr> </tbody> </table>						Subject Code	Subject name	Coordinating Institute	Registration date	Duration of course	Faculty mentor	210752	Urban Land use and transportation planning	IIT Kharagpur	02 Aug 2021	12 weeks	Ar. Harshita Mishra	210753	Urban governance and Development Management	IIT Roorkee	02 Aug 2021	12 weeks	Ar Richa Mishra	210754	Glass in buildings : Design and applications	IIT Madras, IIT Roorkee	02 Aug 2021	12 weeks	Ar. Shweta Singh
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Item 3:	<p><i>To propose the list and syllabi for all Open Category (OC) Courses of VII Semester under the flexible curriculum along with their COs (Batch admitted in 2018-19).</i></p> <p>NA As per Council of Architecture Norms, no open course has been offered in the Architecture branch as of now. To be discussed in the BOS meeting ahead.</p>																													
Item 4:	<p><i>To propose the list of "Additional Courses" which can be opted for getting an</i></p> <p>(i) Honours (for students of the host department)</p>																													





NA	<p>(ii) Minor Specialization (for students of other departments) <i>[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the V semester (for the batch admitted in 2019-20) and for VII semester students (for the batch admitted in 2018-19)].</i></p> <p>As per Council of Architecture Norms, Honours & Minor Specialization is not offered in the Architecture branch.</p>																														
Item 5:	<p><i>To review and update the syllabi for all Departmental Core (DC) Courses of V & VII Semester (for batches admitted in 2018-19 & 2019-20) under the flexible curriculum along with their COs.</i></p> <p>Courses & Syllabi to be offered (to the batch admitted in 2018-19 & 2019-20) under Departmental Core (DC) Courses for the V & VII semester students along with their COs attached.</p> <p><u>Annexure-2</u></p>																														
Item 6:	<p><i>To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC Platform for Seminar/Self Study Courses in V Semester (Batch admitted in 2019-20).</i></p> <p>The list of Courses from SWAYAM/NPTEL/MOOC Platform to be offered (for batch admitted in 2019-20) in online mode under Seminar/Self Study Courses in V Semester {applicable during July-Dec 2021 academic session attached.</p> <table border="1" data-bbox="300 907 1460 1400"> <thead> <tr> <th>Subject Code</th> <th>Subject name</th> <th>Coordinating Institute</th> <th>Registration date</th> <th>Duration of course</th> <th>Faculty mentor</th> </tr> </thead> <tbody> <tr> <td>210551</td> <td>Culturally Responsive Built Environments</td> <td>IIT Roorkee</td> <td>23 Aug 2021</td> <td>8 Weeks</td> <td>Ar. Ankit Kumar</td> </tr> <tr> <td>210552</td> <td>Role of Craft and Technology in Interior – Architecture</td> <td>IIT Roorkee</td> <td>02 Aug 2021</td> <td>8 Weeks</td> <td>Ar .Anmol Gupta</td> </tr> <tr> <td>210553</td> <td>Visual Communication Design for Digital Media</td> <td>IIT Roorkee</td> <td>02 Aug 2021</td> <td>4 weeks</td> <td>Ar. Harshita Mishra</td> </tr> <tr> <td>210554</td> <td>Design Thinking - A Primer</td> <td>IIT Madras</td> <td>02 Aug 2021</td> <td>4 weeks</td> <td>Ar. Ankit Kumar</td> </tr> </tbody> </table>	Subject Code	Subject name	Coordinating Institute	Registration date	Duration of course	Faculty mentor	210551	Culturally Responsive Built Environments	IIT Roorkee	23 Aug 2021	8 Weeks	Ar. Ankit Kumar	210552	Role of Craft and Technology in Interior – Architecture	IIT Roorkee	02 Aug 2021	8 Weeks	Ar .Anmol Gupta	210553	Visual Communication Design for Digital Media	IIT Roorkee	02 Aug 2021	4 weeks	Ar. Harshita Mishra	210554	Design Thinking - A Primer	IIT Madras	02 Aug 2021	4 weeks	Ar. Ankit Kumar
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Item 7:	<p><i>Scheme & Syllabi (along with the Course Outcomes & Learning Outcomes) of I to IV semester of the B.Arch students of 2020-21 admitted batch according to the revised structure.</i></p> <p>The Scheme & Syllabi (along with the Course Outcomes & Learning Outcomes) of I to IV semester of the B.Arch students of 2020-21 admitted batch according to the revised structure is attached.</p> <p><u>Annexure-3 & 4</u></p>																														
Item 8:	<p><i>To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in V and VII semester (Batches admitted in 2018-19& 2019-2020).</i></p> <p>The Experiment list/ Lab manual for Laboratory Courses to be offered in V and VII semester (Batches admitted in 2018-19& 2019-2020) attached.</p>																														




	<p>Lab course- Climatology Lab</p> <p><u>Annexure-5</u></p>											
Item 9:	<p><i>To propose a suggestive list of projects which can be assigned under the 'Skill based mini-project' category in various laboratory courses to be offered in July-December 2021?</i></p> <p>The list of projects which can be assigned under the 'Skill based mini – project' category in various laboratory courses to be offered in July-Dec, 2021 are attached.</p> <p><u>Annexure-6</u></p>											
Item 10:	<p><i>To review the CO attainments for July-December 2020 semester, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels.</i></p> <p>The review of the CO attainments for July-December 2020 semester is attached.</p> <table border="1"> <thead> <tr> <th>Total No of courses</th> <th>Total number of COs</th> <th>Number of COs not attained</th> <th>Percentage of COs not attained</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>88</td> <td>00</td> <td>0%</td> </tr> </tbody> </table> <p>Analysis- CO attainment level is proposed to be raised</p> <p><u>Annexure-7</u></p>				Total No of courses	Total number of COs	Number of COs not attained	Percentage of COs not attained	16	88	00	0%
Total No of courses	Total number of COs	Number of COs not attained	Percentage of COs not attained									
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Item 11:	<p><i>To review curricula feedback from various stakeholders, its analysis and impact.</i></p> <p>Analysis of Curricula feedback from various stakeholders-</p> <p>Teachers feedback- The courses and content are upto date and are well designed The curriculum is capable of inculcating lifelong learning abilities More books may be added in the library</p> <p>Parents' satisfaction survey- Overall the parents are satisfied on all the five pointers And are concerned about employability New courses may be added to meet current needs</p> <p>Employers' feedback- Overall the employers are satisfied Have given suggestions on development of students more on practical aspects of field Courses like Working Drawing, Estimation costing, professional practice need to be given more emphasis</p> <p>Alumni feedback- 36% alumni are pursuing higher degree 39% alumni are employed with private organizations Majority feels that they are capable of making good career The alumni are willing to contribute through interaction with students, sharing their works and experiences and guiding them.</p> <p>The review of the curricula feedback from various stakeholders, its analysis and impact is attached.</p> <p><u>Annexure-8</u></p>											
Item 12:	<p><i>To review course outcomes (COs) feedback of various courses, its analysis and impact.</i></p>											


	<p>The review of the COs feedback of various courses, its analysis and impact is attached.</p> <p><u>Annexure-9</u></p>																														
Item 13:	<p>To present matters, if any, related to the new curriculum/structure PG programme (Batch admitted in 2020-21) needing ratification in the forthcoming Academic Council meeting.</p> <p>The scheme and syllabus for MUP is the same as the previous year. The Course Outcomes are prepared and incorporated in the Syllabus.</p> <p><u>Annexure-10</u></p>																														
Item 14:	<p>Any other department specific matter(s).</p> <p>1. The Syllabus of Intellectual property Rights is revised and updated according to Architectural Professional needs. The Subject code 100008 and scheme of exam for the same is changed to 210707.</p> <p><u>Annexure-11</u></p> <p>2. In IX sem 210902- Online Course- students have to take up courses from NPTEL/ SWAYAM/ COURSERA etc. – The students should be allowed to take up the course as per their need & need not be from core architecture. The suggestive course list is -</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Course Name</th> <th>Coordinating Institute</th> <th>Registration date</th> <th>Duration of course</th> <th>Faculty mentor</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Glass in buildings : Design and applications</td> <td>IIT Madras, IIT Roorkee</td> <td>02 Aug 2021</td> <td>12 weeks</td> <td>Ar. Shweta Singh</td> </tr> <tr> <td>2</td> <td>Introduction to Multimodal Urban Transportation Systems (MUTS)</td> <td>IIT Kharagpur</td> <td>02 Aug 2021</td> <td>12 weeks</td> <td>Dr Anjali S Patil</td> </tr> <tr> <td>3</td> <td>Photojournalism</td> <td>Pondicherry University</td> <td>31 Aug 2021</td> <td>15 weeks</td> <td>Dr Sanyam Bahga</td> </tr> <tr> <td>4</td> <td>Film Appreciation</td> <td>IIT Madras</td> <td>02 Aug 2021</td> <td>8 weeks</td> <td>Ar Geetika Jha</td> </tr> </tbody> </table> <p>3. The common jury panel for all students of MUP dissertation may be permitted.</p>	S.No.	Course Name	Coordinating Institute	Registration date	Duration of course	Faculty mentor	1	Glass in buildings : Design and applications	IIT Madras, IIT Roorkee	02 Aug 2021	12 weeks	Ar. Shweta Singh	2	Introduction to Multimodal Urban Transportation Systems (MUTS)	IIT Kharagpur	02 Aug 2021	12 weeks	Dr Anjali S Patil	3	Photojournalism	Pondicherry University	31 Aug 2021	15 weeks	Dr Sanyam Bahga	4	Film Appreciation	IIT Madras	02 Aug 2021	8 weeks	Ar Geetika Jha
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Ar. Geetika Jha
 Asst. Professor, Department of
 Architecture MITS, Gwalior



Ar. Apurva Tomar
 Asst. Professor, Department of
 Architecture MITS, Gwalior

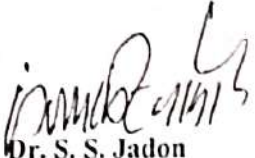

Ar. Shweta Singh,
 Asst. Professor, Department of
 Architecture MITS, Gwalior





Ar. Ankit Kumar
Asst. Professor, Department of
Architecture MITS, Gwalior


Ar. Versha Sinha,
Asst. Professor, Department of
Architecture MITS, Gwalior


Dr. Sanyam Bahga
Asst. Professor, Department of
Architecture MITS, Gwalior


Dr. S. S. Jadon
Professor, Department of
Architecture MITS, Gwalior


Dr. A. S. Patil
Head of Department
Asso. Professor, Department of
Architecture MITS, Gwalior

(Present)

Dr Sanjeev Singh,
Professor, School of Planning and
Architecture Bhopal Madhya
Pradesh (M.P.), nominee -
honorable Vice – chancellor, RGPV
BoS, Member

(Present)

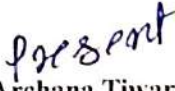
Dr Sandip Sankat,
Asso. Professor, SPA, Bhopal


(Present)

Dr Vasudha Gokhale,
Professor, Department of Architecture,
BNCA, Pune M.S. Subject experts from
outside the parent university (RGPV)
BoS Member

(Present)

Dr Manmohan Kapshe
Professor, Department of
Architecture and Planning, MANIT,
Bhopal, Subject experts from
outside the parent university
(RGPV) BoS Member


Dr. Archana Tiwari
Professor, Department of Civil MITS,
Gwalior


27/7/2021
Dr. Manjaree Pandit
Dean Academics, MITS, Gwalior
DEAN (ACADEMICS)
M.I.T.S
GWALIOR

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous NACC accredited Institute Affiliated to RGPV, Bhopal)

Department of Architecture

Ref.: Arch/ASP/Oct./2021 / 1174

Date: 04.10.2021

To,
Dean Academics
M.I.T.S Gwalior

Subject: Regarding amendments done in Scheme of Evaluation for Bachelor of Architecture, Department of Architecture, M.I.T.S Gwalior

Respected Madam,

There has been an amendment in the scheme of evaluation as per the directions received from the competent authority. Thus, for the batch admitted in 2020-21, for their first year evaluation the scheme of evaluation runs with division in Maximum marks allotted in such a way –

Maximum Marks Allotted						
Theory Slot				Practical Slot		
End Sem.	Proficiency in subject/course	Mid Sem.	Quiz/ Assignment /Sessional	End Sem.	Lab work & Sessional	Skill based mini project

While from third semester onwards for Batch admitted in 2020-21, the scheme is modified and for their evaluation the scheme of evaluation runs with division in Maximum marks allotted is as per the following table (Theory End term evaluation contains End term & Proficiency in subject and Practical continuous evaluation contains labwork and skill based mini project)

Maximum Marks Allotted						
Theory Slot				Practical Slot		
End Term Evaluation		Continuous Evaluation		End Sem Exam.	Continuous Evaluation	
End Sem.	Proficiency in subject/course	Mid Sem.	Quiz/ Assignment /Sessional		Lab work & Sessional	Skill based mini project

Submitted for your approval and necessary action.

M. Pandic
04/10/2021
DEAN (ACADEMICS)
M.I.T.S
GWALIOR

J. S. Patil 4.10.21
Dr. Anjali S Patil
Asso Professor & Head

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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DEPARTMENT OF ARCHITECTURE

BOS Agenda Item NO.1.

The list and syllabi for all Departmental Elective (DE) Courses of V Semester

(Offered to the batch admitted in 2019-20 under the flexible curriculum)

- Human Settlement (210511)
- Interior Design (210512)
- Architectural conservation and historic preservation (210513)
- Space Architectural Design (210514)

BOS Agenda Item NO.2.

The list of Courses from SWAYAM/NPTEL/MOOC Platform to be offered (for batch admitted in 2018-19) in online mode under Departmental Elective (DE) Courses for credit transfer in the VII Semester

Subject Code	Subject name	Coordinating Institute	Registration date	Duration of course	Faculty mentor
210752	Urban Land use and transportation planning	IIT Kharagpur	02 Aug 2021	12 weeks	Ar. Harshita Mishra
210753	Urban governance and Development Management	IIT Roorkee	02 Aug 2021	12 weeks	Ar Richa Mishra
210754	Glass in buildings : Design and applications	IIT Madras, IIT Roorkee	02 Aug 2021	12 weeks	Ar. Shweta Singh

BOS Agenda Item NO.6.

The list of Courses from SWAYAM/NPTEL/MOOC Platform to be offered (for batch admitted in 2019-20) in online mode under Seminar/Self Study Courses in V Semester (applicable during July-Dec 2021 academic session attached).

Subject Code	Subject name	Coordinating Institute	Registration date	Duration of course	Faculty mentor
210551	Culturally Responsive Built Environments	IIT Roorkee	23 Aug 2021	8 Weeks	Ar. Ankit Kumar
210552	Role of Craft and Technology in Interior – Architecture	IIT Roorkee	02 Aug 2021	8 Weeks	Ar .Anmol Gupta
210553	Visual Communication Design for Digital Media	IIT Roorkee	02 Aug 2021	4 weeks	Ar. Harshita Mishra
210554	Design Thinking - A Primer	IIT Madras	02 Aug 2021	4 weeks	Ar. Ankit Kumar

BOS Agenda Item NO.14.

In IX sem 210902- Online Course- students have to take up courses from NPTEL/ SWAYAM/ COURSERA etc. – The students should be allowed to take up the course as per their need & need not be from core architecture. The suggestive course list is -

S.No.	Course Name	Coordinating Institute	Registration date	Duration of course	Faculty mentor
1	Glass in buildings : Design and applications	IIT Madras, IIT Roorkee	02 Aug 2021	12 weeks	Ar. Shweta Singh
2	Introduction to Multimodal Urban Transportation Systems (MUTS)	IIT Kharagpur	02 Aug 2021	12 weeks	Dr Anjali S Patil
3	Photojournalism	Pondicherry University	31 Aug 2021	15 weeks	Dr Sanyam Bahga
4	Film Appreciation	IIT Madras	02 Aug 2021	8 weeks	Ar Geetika Jha

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**Proposed Structure of Bachelor of Architecture (B.Arch.)
program**

Category Code	Course Category	Weightage in terms of credits as per CoA norms (2017 regulations)	No of courses	Total credits	Weightage in terms of credits achieved
DC	Departmental(Professional) Core	45%	20	124	48%
BSAE	Building Science & Applied Engineering	20%	14	55	21%
DE	Departmental(Professional) Elective	10%	8	23	9%
PAEC	Professional Ability Enhancement Course	15%	7	36	14%
SEC	Skill Enhancement Course	5%	12	18	7%
CLC	Novel engaging course	-	4	4	1%
TOTAL		100%	65	260	100%
MC	Mandatory Audit Course	5%	4	8	3 %

MCQ: Multiple Choice Question
AO: Assignment + Oral
OB: Open Book
PP: Pen Paper

*compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

* subjects which are of more theoretical in nature

** subjects which are of more designing/algebraic/computational in nature

*** subjects which are of partially computational/design /programming nature (i.e. conceptual building part can be covered in online mode + computing /design part in offline mode or for MOOC based courses, the mentoring slot can be treated as offline mode delivery of partial contents to make the teaching learning "Blended")

§Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject



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Architecture & Planning Department Scheme of Evaluation

2021-2022 batch onwards

Bachelor of Architecture, First Year, I Semester

S. No.	Subject Code	Subject Name	Category	Maximum Marks Allotted							Total Marks	Contact Periods per week			Total Credits	Mode of Teaching (Offline/Online)	Mode of Exam
				Theory Slot			Practical Slot					L	T	P			
				End Term Evaluation		Continuous Evaluation		End Sem Exam	Continuous Evaluation								
				End Sem.	Proficiency in subject/course	Mid Sem.	Quiz/Assignment/Sessional		Lab work & Sessional	Skill based mini project							
1.	210112	Architectural Design I	DC-1	100	20	20	20	20	30	10	250	2	3	2*(1.5)	8	Offline**	AO
2.	210113	Building Materials	BSAE-1	50	10	20	20	-	-	-	100	2	1	-	3	Blended* (2/1)	PP
3.	210114	Graphics I	DC-2	50	10	20	20	20	50	-	200	2	3	2	6	Blended** (4/2)	AO
4.	210115	Structure I	BSAE-2	50	10	20	20	-	-	-	100	2	1	-	3	Offline**	PP
5.	210116	History of Architecture I	DC-3	50	10	20	20	-	-	-	100	2	1	-	3	Blended* (2/1)	PP
6.	210117	Workshop I	SEC-1	-	-	-	-	20	20	10	50	-	-	4	2	Offline**	SO
7.	210118	Professional Communication	SEC-2	50	10	20	20	-	-	-	100	1	1	-	2	Blended* (1/1)	PP
		Total		350	70	120	120	120	100	20	900	11	10	8	27		

Induction program of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent people, Visits to local Areas, Familiarization to Dept/ Branch Innovation

*Proficiency in course/subject includes the weightage towards ability/skill/competence/knowledge level/expertise attained etc. in that particular course/subject
 *One Design Studio/Construction Studio/Project/Thesis Period/ Hour shall have 1.5 Credit

Mode of teaching			Mode of Exam			Total credits
Theory	Blended	Studio	Theory	AO	MCQ	
Offline	Online	Offline	PP	AO	MCQ	
8	4	6	11	10	-	27
30%	15%	22%	41%	37%	-	9%



Architecture & Planning Department
Scheme of Evaluation

2021-2022 batch onwards

Bachelor of Architecture, First Year, II Semester

S. No.	Subject Code	Subject Name	Category	Maximum Marks Allotted						Total Marks	Contact Periods per week			Total Credits	Mode of Teaching (Offline/Online)	Mode of Exam	
				Theory Slot			Practical Slot				L	T	P				
				End Term Evaluation	Continuous Evaluation		End Sem Exam	Lab work & Sessional	Continuous Evaluation								
					End Sem.	SP Proficiency in subject/course											Mid Sem
1.	210211	Architectural Design II	DC-4	100	20	20	20	50	30	10	250	2	3	2*(1.5)	8	Offline**	AO
2.	210212	Building Construction I	BSAE-3	50	10	20	20	20	20	10	150	2	1	2*(1.5)	6	Blended** (3/3)	PP
3.	210213	Graphics II	DC-5	50	10	20	20	20	20	10	150	1	1	2	3	Offline**	AO
4.	210214	Structure II	BSAE-4	50	10	20	20	-	-	-	100	2	1	-	3	Offline**	PP
5.	210215	History of Architecture II	DC-6	50	10	20	20	-	-	-	100	2	1	-	3	Blended* (2/1)	PP
6.	210216	Theory of Design	DC-7	50	10	20	20	-	-	-	100	2	-	-	2	Blended* (2/1)	PP
7.	210217	Workshop II	SEC-3	-	-	-	-	20	20	10	50	-	-	4	2	Offline**	-
		Total		350	70	120	120	110	90	40	900	11	7	10	27		

Summer Internship Project I (Institute level)(Qualifier): Minimum two weeks duration

*Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level/expertise attained etc. in that particular course/subject

*One Design Studio/ Construction Studio/ Project/ Thesis Period/ Hour shall have 1.5 Credit

Mode of teaching	Mode of Exam				Total credits	
	Theory		Studio			
	AO	MCQ	SO	SO		
Offline	3	6	11	7	9	27
10	11%	22%	41%	26%	33%	9%

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Architecture & Planning Department
Scheme of Evaluation

2020-2021 batch onwards

Bachelor of Architecture, Second Year, III Semester

S. No.	Subject Code	Subject Name	Category	Maximum Marks Allotted						Total Marks	Contact Periods per week			Total Credits	Mode of Teaching (Offline/Online)	Mode of Exam	
				Theory Slot			Practical Slot				End Sem Exam.	L	T				P
				Continuous Evaluation			Continuous Evaluation										
				End Term Evaluation	Mid Sem.	Quiz/Assignment / Sessional	Lab work & Sessional	Skill based mini project									
1.	210311	Architectural Design III	DC-8	100	20	20	20	50	30	10	250	2	2	2*(1.5)	7	Offline**	AO
2.	210312	Building Construction II	BSAE-5	50	10	20	20	20	20	10	150	2	1	2*(1.5)	6	Blended* (3/3)	PP
3.	210313	Graphics III	PAEC-1	-	-	-	-	20	20	10	50	-	-	6	3	Offline**	SO
4.	210314	Surveying & Leveling	BSAE-6	50	10	20	20	-	-	-	100	1	2	-	3	Blended** (2/1)	PP
5.	210315	History of Architecture III	DC-9	50	10	20	20	-	-	-	100	2	1	-	3	Blended** (2/1)	PP
6.	210316	Structure III	BSAE-7	50	10	20	20	-	-	-	100	2	1	-	3	Offline**	PP
8.		Novel engaging courses	CLC	-	-	-	-	-	50	-	50	-	-	2	1	Interactive	SO
9.	210319	Summer Internship Project I	SEC-4	-	-	-	-	50	-	-	50	-	-	2	1	Offline	SO
	Total			300	60	100	100	140	120	30	850	9	7	14	27		
7.	210310	Biology for Architects	MAC-1	50	10	20	20	-	-	-	100	2	-	-	Grade	Blended* (2/1)	PP

Tour/ seminar/ Workshop/ Training during winter break: Evaluation in IV semester

*Proficiency in course/subject – includes the weightage towards ability/ skill/ competence, knowledge level/expertise attained etc. in that particular course/subject

*One Design Studio/ Construction Studio/ Project/ Thesis Period/ Hour shall have 1.5 Credit

Biology for Architects (Audit Course) will not be included in the aggregate and Passing is optional, however a separate marksheet will be issued to those who qualify

Mode of teaching	Mode of Exam						Total credits
	Theory			Studio			
	Offline	Blended	Online	Offline	MCQ	SO	
7	4	5	11	4	-	11	27
26%	15%	18%	41%	15%	-	41%	96%

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Architecture & Planning Department
Scheme of Evaluation

2020-2021 batch onwards

Bachelor of Architecture, Second Year, IV Semester

S. No.	Subject Code	Subject Name	Category	Maximum Marks Allotted										Total Marks	Contact Periods per week			Total Credits	Mode of Teaching (Offline/Online)	Mode of Exam	
				Theory Slot					Practical Slot						L	T	P				
				End Term Evaluation		Continuous Evaluation			End Sem Exam.	Continuous Evaluation		Continuous Evaluation									
				End Sem.	SP Proficiency in subject/course	Mid Sem.	Quiz/Assignment /Sessional	Lab work & Sessional		Skill based mini project											
1.	210413	Architectural Design IV	DC-10	100	20	20	20	20	50	30	10	250	2	2	2*(1.5)	7	Offline**	AO			
2.	210414	Building Construction III	BSAE-8	50	10	20	20	20	20	20	10	150	2	1	2*(1.5)	6	Blended** (3/3)	PP			
3.	210415	Building Services I (Water Supply & Sanitation)	BSAE-9	50	10	20	20	20	-	-	-	100	2	1	-	3	Offline***	PP			
4.	210416	History of Architecture IV	DC-11	50	10	20	20	20	-	-	-	100	2	1	-	3	Blended* (2/1)	PP			
5.	210417	Structure IV	BSAE-10	50	10	20	20	20	-	-	-	100	2	1	-	3	Offline***	PP			
6.	-	ELECTIVE I	DE-1	50	10	20	20	20	-	-	-	100	2	1	1	3	Blended* (2/1)	PP			
7.	-	Novel engaging courses	CLC	-	-	-	-	-	-	50	-	50	-	-	2	1	Interactive	SO			
8.	210419	Tour Seminar / Workshop/ NASA Training during winter break	SEC-5	-	-	-	-	50	-	-	-	50	-	-	2	1	Offline	SO			
Total				350	70	120	120	120	120	100	20	900	12	6	10	27					
9.	1100006	Indian constitution	MAC-2	50	10	20	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ			

Summer Internship Project II (Softskill based): Minimum two weeks duration: Evaluation in V semester

*Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained etc. in that particular course/subject

*One Design Studio/ Construction Studio/ Project/ Thesis Period/ Hour shall have 1.5 Credit

Mode of teaching				Mode of Exam			Total credits
Theory		Studio		Theory			
Offline	Online	Blended	Offline	PP	AO	MCQ	SO
10	-	4	8	14	4	-	9
37%	-	18%	30%	52%	15%	-	33%

S no	Elective	Sub code	Sub Name	Remark
1	ELECTIVE - I	210421	Ecology & Environment	
		210422	Society, Culture And Architecture	

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Third Year, V Semester

For 2019-2020 batch

S. No	Subject Code	Subject Name	Category	Maximum Marks Allotted				Total Marks	Contact Periods per week			Total Credits
				Theory Slot		Practical Slot			L	T	P	
				End Sem Exam	Mid Sem Exam	Quiz/Assignment / Sessional	End Sem					
1.	210501	Architectural Design - V	DC-12	100	30	20	50	7	2	3	2*(1.5)	8
2.	210502	Building Construction -IV	BSAE-11	50	30	20	20	5	2	1	2*(1.5)	6
3.	210503	Building Services-II (Electrical & Mechanical)	BSAE-12	50	30	20	-	3	2	1	-	3
4.	210504	Building Sciences & Energy Conservation	BSAE-13	50	30	20	-	3	2	1	-	3
5.	-	ELECTIVE-II	DE-2	50	30	20	-	3	2	1	-	3
6.	210508	* Self study, Seminar (SWAYAM/NPTEL & MOOC)	SEC-6	-	-	-	100	4	-	-	4	2
7.	210507	Summer Internship Project-II	SEC-7	-	-	-	50	2	-	-	2	1
		Total		300	150	100	180	27	10	7	10	26
8.	1000006	Constitution of India/ Essence of Indian Traditional knowledge (Audit course)	MC-2	70	20	10	-	3	-	-	-	-

Department level activity/ workshop/ awareness programme to be conducted, certificate of compliance to be submitted by HoD to the Exam Controller through Dean Academics

S no	Elective	Sub code	Sub Name	Remark
1	ELECTIVE-II	210512	Interior Design	
		210513	Architectural conservation and historic preservation	
		210514	Regionally Responsive Architecture	
		210515	Space Architectural Design	

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Subject Code	* SELFSTUDY/Subject name (To be opted through NPTEL/SWAYAM platform)
210508	Culturally Responsive Built Environments
	Role of Craft and Technology in Interior - Architecture
	Visual Communication Design for Digital Media
	Design Thinking - A Primer

*Compulsory registration for one online course using SWAYAM/NPTEL/MOOC, Evaluation through attendance, assignments and presentations.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE

Third Year, VI Semester **For 2019-2020 batch**

*One Design Studio/ Construction Studio/ Project/ Thesis Period/ Hour shall have 1.5 Credit
 *100006 Constitution of India/ Essence of Indian Traditional knowledge (Audit course) will not be included in the aggregate and Passing is optional, however a separate marksheet will be issued to those who qualify

S.No	Subject Code	Subject Name	Category	Maximum Marks Allotted				Total Marks	CT HR S	Contact Periods per week			Total Credits	
				Theory Slot	Practical Slot	MOOC	MOOC			L	T	P		
				End Sem	Mid Sem Exam.	Quiz/ Assgnment/ Sessional	End Sem	Lab work & Sessional	Assignment	Exam				
1.	210601	Architectural Design - VI	DC-13	100	30	20	50	100			2	2	4*(1.5)	10
2.	210602	Building Services-III (Acoustic & Fire Fighting)	BSAE-14	50	30	20	-	-			3	1	-	4
3.	210608	Site Planning and Landscaping, Architecture	DC-14	50	30	20	-	-			2	1	-	3
4.	210604	Working Drawing	PAEC-2	-	-	-	20	30			-	-	4	2
5.	-	ELECTIVE-III	DE-3	50	30	20	-	-			3	1	2	3
6.	-	* ELECTIVE- IV	DE-4	-	-	-	-	-		25	75	2	1	3
7.	210607	Tour/ seminar / Workshop/ Training during winter break	SEC-8	-	-	-	50	-			2	-	2	1
		Total		250	120	80	120	130	25	75	10	7	10	26

Summer Internship Project- III: Minimum four weeks duration: Evaluation in VII semester

Sno	Elective	Sub code	Sub Name	Remark
1	ELECTIVE-III	210611	Housing	
		210614	Architectural Journalism	
2	ELECTIVE- IV*			opted from NPTEL platform

* Compulsory registration for one online course using SWAYAM/NPTEL/MOOC
 *One Design Studio/ Construction Studio/ Project/ Thesis Period/ Hour shall have 1.5 Credit

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 Nishith, Akshay, Raj, Joon, Subh, Pooja, Anshu, S/S

Fourth Year, VIII Semester

For 2018-2019 batch

S.N o.	Subject Code	Subject Name & Title	Category	Maximum Marks Allotted					Total Marks	Contact Periods per week			Total Credits
				Theory Slot		Quiz/ Assignment / Sessional	End Sem.	Practical Slot		L	T	P	
				End Sem.	Mid Sem. Exam								
1.	210801	Architectural Design - VIII	DC-17	-	-	-	150	100	8	-	-	8*(1.5)	12
2.	210802	Urban Design	DC-18	50	30	20	20	30	5	2	1	2	4
3.	210803	Professional Practice & Ethics	PAEC-5	50	30	20	-	-	3	2	1	-	3
4.	210804	Dissertation	PAEC-6	-	-	-	20	30	4	-	-	4	2
5.	100007	Disaster management (MC)	MC-4	70	20	10	-	-	3	2	1	-	3
6.	210805	ELECTIVE-VI	DE-6	50	30	20	-	-	100	3	2	1	3
7.	210806	Tour/ seminar / NASA/Workshop/Training during winter break	SEC-10	-	-	-	50	-	50	2	-	2	1
		Total		220	110	70	240	160	28	8	4	16	28

*One Design Studio/ Construction Studio/ Project/ Thesis Period/ Hour shall have 1.5 Credit

S no	Elective	Sub code	Sub Name	Remark
1	ELECTIVE-VI	210811	Furniture Design	
		210812	City & metropolitan planning	
		210813	Adv Structural Design	

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Fifth Year, IX Semester

For 2017-2018 batch

S.N o.	Subject Code	Subject Name & Title	Category	Maximum Marks Allotted						Total Marks	Min. Working HRS/ Week	Contact Periods per week	Total Credits	
				Theory Slot		Practical Slot		MOOC						
				End Sem	Mid Sem. Exam	Quiz/ Assign ment	End Sem.	Term Work	Assign ment					Exam
1.	210901	Professional Training	PAEC-7	-	-	-	400	300	-	-	38	L T P	19	
2.	210902	MOOC course (SWAYAM/NPTEL/ COURSEERA)	SEC-11	-	-	-	-	-	25	75	4	-	4	2
		Total					400	300	25	75	42	-	42	21

* MOOC course- Compulsory registration and exam for one online certification course using SWAYAM/NPTEL/COURSEERA

S.No	Course Name
1	Glass in buildings : Design and applications
2	Introduction to Multimodal Urban Transportation Systems (MUTS)
3	Photojournalism
4	Film Appreciation

M Pandey
28/7/2021

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PM
Shubh
Shubh
Shubh
Shubh

Madhvi
Shubh

Fifth Year, X Semester

For 2017-2018 batch

S.N o.	Subject Code	Subject Name & Title	Category	Maximum Marks Allotted					Total Marks	Contact Periods per week			Total Credits
				Theory Slot		End Sem.	Practical Slot			L	T	P	
				End Sem	Mid Sem. Exam		Quiz/ Assignment / Sessional	End Sem.					
1.	211001	Thesis Project	DC-19	-	-	-	400	250	-	-	-	18*(1.5)	27
3.	211002	Professional Development	SEC-12	-	-	-	20	30	-	-	-	2	1
4.	211003	ELECTIVE - VII PROFESSIONAL CERTIFICATION COURSE	DE-7	-	-	-	70	30	-	-	-	4	2
Total				-	-	-	490	310	-	-	-	24	30

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Scheme of Examination

2020-2021 batch onwards

Bachelor of Architecture, First Year, I Semester

S. No.	Subject Code	Subject Name	Category	Maximum Marks Allotted					Total Marks	CT HRS	Contact Periods per week			Total Credits	Mode of Exam	Mode of Teaching (Offline/Online)			
				Theory Slot		Practical Slot					L	T	P						
				End Sem. in subject/course	Proficiency in subject/course	Mid Sem. Assignment /Sessional	Quiz/Assignment /Sessional	End Sem.									Lab work & Sessional	Skill based mini project	
1.	210112	Architectural Design I	DC-1	100	20	20	20	20	50	30	10	250	7	2	3	2*(1.5)	8	AO	Offline**
2.	210113	Building Materials	BSAE-1	50	10	20	20	20	-	-	-	100	3	2	1	-	3	PP	Blended* (2/1)
3.	210114	Graphics I	DC-2	50	10	20	20	20	50	50	-	200	7	2	3	2	6	AO	Blended** (4/2)
4.	210115	Structure I	BSAE-2	50	10	20	20	20	-	-	-	100	3	2	1	-	3	PP	Offline***
5.	210116	History of Architecture I	DC-3	50	10	20	20	20	-	-	-	100	3	2	1	-	3	PP	Blended* (2/1)
6.	210117	Workshop I	SEC-1	-	-	-	-	20	20	10	50	4	-	-	-	4	2	SO	Offline**
7.	210118	Professional Communication	SEC-2	50	10	20	20	20	-	-	100	2	1	1	-	-	2	PP	Blended* (1/1)
		Total		350	70	120	120	120	120	100	20	900	29	11	10	8	27		

Induction program of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent people, Visits to local Areas, Familiarization to Dept/Branch Innovation

*One Design Studio/ Construction Studio/ Project/ Thesis Period/ Hour shall have 1.5 Credit

Mode of teaching		Mode of Exam				Total credits
Theory	Studio	Theory		Studio		
Offline	Online	Blended	PP	AO	MCO	SO
8	9	4	11	10	-	6
30%	33%	15%	41%	37%	-	22%
						27
						%

MNO
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Scheme of Examination

2020-2021 batch onwards


Bachelor of Architecture, First Year, II Semester

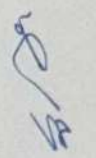
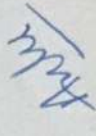
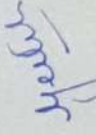
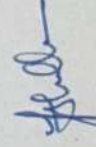
S. No.	Subject Code	Subject Name	Category	Maximum Marks Allotted				Total Marks	CT HRS	Contact Periods per week			Total Credits	Mode of Exam	Mode of Teaching			
				Theory Slot		Practical Slot				L	T	P						
				End Sem.	Proficiency in subject/course	Mid Sem	Quiz/Assignment /Sessional									End Sem.	Lab work & Sessional	Skill based mini project
1.	210211	Architectural Design II	DC-4	100	20	20	20	50	30	10	250	7	2	3	2*(1.5)	8	AO	Offline**
2.	210212	Building Construction I	BSAE-3	50	10	20	20	20	20	10	150	5	2	1	2*(1.5)	6	PP	Blended** (3/3)
3.	210213	Graphics II	DC-5	50	10	20	20	20	20	10	150	4	1	1	2	3	AO	Offline**
4.	210214	Structure II	BSAE-4	50	10	20	20	-	-	-	100	3	2	1	-	3	PP	Offline***
5.	210215	History of Architecture II	DC-6	50	10	20	20	-	-	-	100	3	2	1	-	3	PP	Blended* (2/1)
6.	210216	Theory of Design	DC-7	50	10	20	20	-	-	-	100	2	2	-	-	2	pp	Blended* (2/1)
7.	210217	Workshop II	SEC-3	-	-	-	-	20	20	10	50	4	-	-	4	2	-	Offline**
		Total		350	70	120	120	110	90	40	900	28	11	7	10	27		

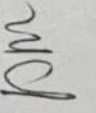

Summer Internship Project I (Institute level)(Qualifier): Minimum two weeks duration

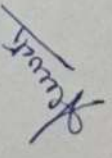
*One Design Studio/ Construction Studio/ Project/ Thesis Period/ Hour shall have 1.5 Credit

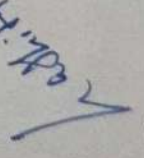
Mode of teaching	Theory			Studio			Mode of Exam			Total credits	
	Offline	Online	Blended	Offline	Online	Studio	PP	AO	MCQ		SO
10	-	3	6	8	8	7	11	7	-	9	27
37%	-	11%	22%	30%	30%	26%	41%	26%	-	33%	%


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670111-PLANNING PRINCIPLES AND THEORY

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670111	PLANNING PRINCIPLES AND THEORY	70	20	10	-	-	3	1	-	4	100

Evolution of City Building

Relevance of the study of evolution of settlements; Hunter, gatherer, farmer and formation of organized society; Cosmological and other influences, origins and growth of cities, effects of cultural influence on physical form; Human settlements as an expression of civilizations; Basic elements of the city; Concepts of space, time, scale of cities.

Planning History




Town Planning practices worldwide, Town planning in ancient India; Medieval, renaissance, industrial and post industrial cities; City as a living spatial entity; Concepts of landmark, axis, orientation; City form as a living space; City as a political statement: New Delhi, Chandigarh, Washington D.C. Brasilia etc.; Contribution of individuals to city planning: Lewis Mumford, Patrick Geddes, Peter Hall, etc; Dynamics of the growing city, impact of industrialization and urbanization, metropolis and megalopolis.

Definitions and Objectives of Planning

Definitions of town and country planning; Orthodoxies of planning; Goal formulation, objective, scope, limitations; Sustainability and rationality in planning; Components of sustainable urban and regional development.

Theories of City Development and Planning Theories

Theories of city development including Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other latest theories; Land use and land value theory of William Alonso; Ebenezer Howard's Garden City Concept; and Green Belt Concept; City as an organism: a physical, social, economic and political entity; Emerging Concepts: global city, inclusive city, safe city, etc.; City of the future and future of the city; Shadow cities, divided cities; Models of planning; Advocacy and Pluralism in Planning; Systems approach to planning: rationalistic and incremental approaches, mixed scanning and middle range planning; Equity planning; Political Economy Model; Types of development plans, plan making process.

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670102- SOCIO-ECONOMIC BASIS FOR PLANNING

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670102	SOCIO-ECONOMIC BASIS FOR PLANNING	70	20	10	-	-	3	1	-	4	100

Nature and Scope of Sociology

Sociological concepts and methods, man and environment relationships; Socio-cultural profile of Indian society and urban transformation; Tradition and modernity in the context of urban and rural settlements; Issues related to caste, age, sex, gender, health safety, and marginalized groups; Displacement, resettlement and rehabilitation due to compulsory land acquisition.

Elements of Micro and Macro Economics

Concepts of demand, supply, elasticity and consumer markets; concept of revenue costs; Economies of scale, economic and social costs, production and factor market; Different market structures and price determination; market failures, cost-benefit analysis, public sector pricing; Determinants of national income, consumption, investment, inflation, unemployment, capital budgeting, risk and uncertainty, and long-term investment planning.

Development Economics and Lessons from Indian Experiences

Economic growth and development, quality of life; Human development index, poverty and income distribution, employment and livelihood; Economic principles in land use planning; Policies and strategies in economic planning, balanced versus unbalanced growth, public sector dominance; changing economic policies, implications on land.



670103-PLANNING TECHNIQUES

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670103	PLANNING TECHNIQUES	70	20	10	-	-	3	1	-	4	100

Survey Techniques and Mapping

Data base for physical surveys including land use, building use, density, building age, etc., and socio-economic surveys; Survey techniques; Land use classification or coding and expected outputs; Techniques of preparing base maps including understanding the concepts of scales, components and detailing for various levels of plans like regional plan, city plan, zoning plan, and local area plan.

Analytical Methods

Classification of regions, delineation techniques of various types of regions, analysis of structure of nodes, hierarchy, nesting and rank size; Scalogram, sociogram, etc.; Planning balance sheet; Threshold analysis; Input output analysis, SWOT analysis;

Demographic Methods

Methods of population forecasts and projections; Lorenz Curve, Ginni Ratio, Theil's index, ratios: urban – rural, urban concentration, metropolitan concentration; Location dimensions of population groups – social area and strategic choice approach – inter connected decision area analysis.

Planning Standards

Spatial standards, performance standards and benchmarks, and variable standards; UDPFI guidelines, Zoning regulations and development control rules and regulations.

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670104-INFRASTRUCTURE ANDTRANSPORT PLANNING

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670104	INFRASTRUCTURE ANDTRANSPORT PLANNING	70	20	10	-	-	3	1	-	4	100

Role of Infrastructure in Development

Elements of Infrastructure (physical, social, utilities and services); Basic definitions, concepts, significance and importance; Data required for provision and planning of urban networks and services; Resource analysis, provision of infrastructure, and land requirements; Principles of resource distribution in space; Types, hierarchical distribution of facilities, Access to facilities, provision and location criteria, Norms and standards, etc.

Planning and Management of Water, Sanitation and Storm Water

Water – sources of water, treatment and storage, transportation and distribution, quality, networks, distribution losses, water harvesting, recycling and reuse, norms and standards of provision, institutional arrangements, planning provisions and management issues; Sanitation – points of generation, collection, treatment, disposal, norms and standards, grey water disposal, DEWATS, institutional arrangements, planning provisions and management issues.

Storm water – rainfall data interpretation, points of water stagnation, system of natural drains, surface topography and soil characteristics, ground water replenishment, storm water collection and disposal, norms and standards, institutional arrangements, planning provisions and management issues;

Planning and Management of Municipal Wastes, Power and Fire

Municipal and other wastes – generation, typology, quantity, collection, storage, transportation, treatment, disposal, recycling and reuse, wealth from waste, norms and standards, institutional arrangements, planning provisions and management issues.

Power – Sources of power procurement, distribution networks, demand assessment, norms and standards, planning provisions and management issues.

Fire – History of fire hazards, vulnerable locations, methods of firefighting, norms and standards, planning provisions and management issues.

City Development and Transport Infrastructure Planning, Management and Design

Role of transport, types of transport systems, evolution of transport modes, transport problems and mobility issues; Urban form and Transport patterns, land use – transport cycle, concept of accessibility; Hierarchy, capacity and geometric design elements of roads and intersections; Basic principles of Transport infrastructure design; Traffic and transportation surveys and studies, traffic and travel characteristics; Urban transport planning process – stages, study area, zoning, data base, concept of trip generation Transport, environment and safety issues; principles and approaches of traffic management, transport system management.

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670115- HOUSING

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670115	HOUSING	70	20	10	-	-	3	1	-	4	100

Concepts and Definitions

Shelter as a basic requirement, determinants of housing form, Census of India definitions, Introduction to policies, housing need, demand and supply, dilapidation, structural conditions, materials of constructions, housing age, occupancy rate, crowding, housing shortage, income and affordability, poverty and slums, houseless population

Various housing typologies viz. traditional houses, plotted development, group housing, multi- storied housing, villas, chawls, etc., slums and squatters, night shelters, public health issues related to housing, various theories of housing, concept of green housing, green rating of housing projects.

Social and Economic Dimensions

Housing as social security, role of housing in development of family and community well-being, status and prestige related to housing, safety, crime and insecurity, deprivation and social vulnerability, ghettoism, gender issues, housing for the elderly.

Contribution of housing to micro and macro economy, contribution to national wealth and GDP, housing taxation, national budgets, fiscal concessions, forward and backward linkages.

Housing and the City

Understanding housing as an important land use component of city plan / master plan, considerations for carrying out city level housing studies, projections, land use provisions; Suitability of land for housing, housing stress identification, projecting housing requirements, calculating housing shortages, housing allocation.

Planning for Neighborhoods

Approaches to neighborhood living in traditional and contemporary societies, elements of neighborhood structure, Planning and design criteria for modern neighborhoods, norms and criteria for area distribution, housing and area planning standards, net residential density and gross residential density, development controls and building byelaws, UDPFI guidelines, NBC 2005 provisions and Case studies of neighborhood planning.

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670106- STUDIO I

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670106	STUDIO COURSE-ISTUDIO ASSIGNMENTS/FILM APPRECIATION/ LITERATURE REVIEW/ AREA APPLICATION	-	-	-	90	60	-	-	6	6	150

Film Appreciation (individual assignment)

Films related to city development and socio-economic issues will be screened for students. The purpose of these films is to educate the students' understanding of various development issues and to absorb them in the planning practice. At the end of the film, a discourse around the film will also be held.

After viewing the films, each student is expected to write about its main focus, city / region context, its applicability to Indian environment by answering the given questions in not more than half a page.

Literature Review (individual assignment)

Each student is expected to read the article given from a journal/book and write a summary of not more than a page (250 words only) highlighting the problem, approach, methodology, analysis, how the author arrived at the conclusion and its relevance to Indian context. There will be a negative marking for writing the same text as in the original (that is copying from the original text given to them).

Area Appreciation (group assignment)

The aim of the area appreciation exercise is to enable the students to understand and contextualize the location of the area in relation to the city, zone and area in which the particular place is situated. This is done in relation to the socio-economic, spatial and cultural characteristics of that city, zone, location, etc. The main purpose is to make the students appreciate the locational attributes of land parcels for future development in a city.

Due to the size of the area, this exercise is done in groups of students being assigned to an area.

The following planning issues at area level should be identified:

- Review of the Master Plan / Zonal / Area plan in relation to the selected areas.

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- Appreciation / Analysis of ward level data.
 - Perception of areas in terms of legal / illegal / authorized / unauthorized, Slums, Urban Aesthetics.
 - Social Categorizations of people - Type of population living, people's perception about area and its planning problems.
 - Land use including Agriculture land and land use conflicts, extent (%) of broad land use such as commercial, industrial, residential, institutional and recreational.
 - Extent of formal / informal activities present in the area including their location and conflicts. General land tenure of the area and land value for different uses.
 - Major types of transport, type of roads, hierarchy of roads, type of transport modes used.
 - Amenities: Location of social and physical infrastructure and their problems as perceived by local population.
 - Look for specific infrastructure such as Water supply, drainage (water logging areas), waste collection and disposal system, sanitation, etc.
- Environmental Issues: Open Spaces – Availability and extent of open space to built-up area, garbage disposal, encroachment (through photographic evidences and sketches). Locating the study area in the zone, city and regional context with respect to all the above aspects.

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Scheme and syllabus approved on 05/10/2018

670107- STUDIO II

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670107	STUDIO COURSE-IISITE PLANNING/ CITY DEVELOPMENT PLAN	-	-	-	90	60	-	-	6	6	150

Site Planning (individual assignment)

Site planning is a process whereby the optimum utilization of potential of site is considered recognizing the constraints the site has. It uses 3-dimensional space of the site and the associated locational advantages, human activities and the regulations that are assigned to a particular site.

The site is developed using a set of standards / norms in a given context which varies from location to location. A student is expected to understand the intricacies and interface between various variables such as soil conditions, topography, environmental dimensions, location, spatial standards applicable to the site, etc.

Review of city development plan - (group assignment)

The students are required to understand the dynamics of various components of the city and how and what level interventions can be made to achieve that vision mentioned in the CDP. A group of students are expected to study a city in terms its present problems and issues and review the futuristic vision.

Vesha
Amish *J* *Jan* *BJ* *im*

Master of URBAN PLANNING – II SEMESTER**670211 – CITY AND METROPOLITAN PLANNING**

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670211	CITYAND METROPOLITAN PLANNING	70	20	10	-	-	3	1	-	4	100

Urban Growth and System of Cities

Growth of cities scale, complexity and its impact on national development, cities as engines of growth, cities as ecosystems, resources in cities. City, fringe and the periphery - physical and functional linkages, peri-urban development.

Community and Settlements

Social problems of slums and squatter's communities, urban and rural social transformation and their impact on social life, safety, security; Crimes in urban areas and their spatial planning implications, social structure and spatial planning; Role of socio-cultural aspects on growth patterns of city and neighborhood communities; Social planning and policy, and community participation; Marginalization and concepts of inclusive planning, and gender concerns in planning. Settlement Policy: National Commission on Urbanization, Rural Habitat Policy and experiences from developing countries regarding settlement structure, growth and spatial distribution.

Metro and Mega Cities: Problems and Issues

Growth trends and processes, characteristics, problems, concepts and concerns of urban sustainability, issues related to diversity and unintended growth, economic, social and environmental sustainability, quality of life, inclusivity and equity, climate change, transit-oriented development, participatory planning. Inner city – issues and problems, approach to development.

Human Settlement Planning, Urban Development Policies and programmes

Concepts, approaches, strategies and tools; Policies and programmes at various levels, impact on metro and mega city development.

Land and Real Estate Development

Economic concepts of land, Land Pricing / valuation; Economic principles of land use; demand forecasting for land use: factors affecting land supply and demand; Land development methods, Supply Management, Demand side Management; Real estate markets, type of property development and its impact on supply and demand, method of development, environmental considerations.

Information System and Urban Reforms

Spatial and Non - spatial information systems; Urban reforms and acts and policies.

670202- URBAN HERITAGE CONSERVATION

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670202	URBAN HERITAGE CONSERVATION	70	20	10	-	-	3	1	-	4	100

Introduction to Urban Heritage

Typology / classification, inventories, mapping; Human habitation in historical context; Heritage as a motivating force in sustainable urban conservation and development,

Heritage Conservation

Natural heritage conservation - typologies, policies for conservation, regulatory measures, community participation; Concept of Historic Urban Landscapes; Built heritage conservation - determinants of built form on heritage; Historic urban infrastructure and traditional water harvesting systems.

Integration of historic monuments

Areas / cores / urban systems in the developmental process and land use, regulatory measures and community involvement; Intangible cultural heritage and development: issues, conservation strategies. Preparation of conservation and heritage management plans.

Heritage and Tourism, Policies and Programmes, Legislation

Cultural and heritage-based tourism - nature, potential and prospects, marketing aspects; Acts and laws recognizing conservation / regeneration; Heritage toolkit; Implications of 74th Constitution Amendment Act.

Design in Human Habitation

Social / cultural / ecological / energy determinants of design; Imageability of the city; Structure of urban spaces – location criteria of activities and urban uses; Urban Regeneration, renewal, rehabilitation, revitalization, reconstruction and redevelopment - concepts, interventions, processes, approaches and methods, tools.

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670203- URBAN DEVELOPMENT FINANCE & PROJECT PLANNING

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670203	URBAN DEVELOPMENT FINANCE & PROJECT PLANNING	70	20	10	-	-	3	1	-	4	100

Legislations pertaining to Urban Governance

Social and economic context; State in India – political culture of the Indian State – Centre – State – Local political economy, Institutional frame and mechanism for urban governance as envisaged in the 73rd and 74th Constitution Amendment Acts.

City and the State

State as a manager of resources – property rights, norms and standards – Government market and market by Government – Regulatory State, Reforming State, and Rent Seeking State – their spatial implications; Development planning and the Indian state – Centralization, powerlessness and decentralization; spatial politics and competition; Politics of the State and bureaucracy; New State spaces, invited and contested spaces – changing role of the state

Municipal Finance

Urban reform incentive fund, Sources of revenues; Equities; Loans; Debt financing; City challenge fund, Pooled finance development fund, National urban infrastructure fund, Municipal Bonds, Miscellaneous sources; Structure of finances, fiscal problems and issues of financial management, implications of 74th Constitution Amendment Act for municipal finance, expenditure pattern, Bilateral and multi-lateral lending intuitions mobilizing resources for a project - financial resources, land resources, project resources, and other resources.

Investment Planning and Financing Mechanism

Link with spatial plans, process, components, investment needs, budgeting, financial investments in infrastructure and services. Financing of urban development, infrastructure and services – mechanisms and instruments, subsidy reduction, cost recovery, public private partnerships; Financial appraisal, investment appraisal; Financial Risk – Sources, Measures and perspectives on risk, Sensitivity analysis.

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Project Formulation and Appraisal

Introduction to Projects; Nature of planning projects; Project Life Cycle; Identification of projects
Relationship between projects and planning issues including sectoral policy at: Local, State and National levels Project appraisal: Market analysis – Macro environment survey, survey methods, market characterization, demand forecasting; Technical Analysis – Magnitude, processes, materials, equipment, factors of production availability, implementation schedule; suitability of the plans, layout and design, location of the project; location analysis; supporting infrastructure requirements- Capital Budgeting – Estimation of costing of components; developing over project cost; Social cost benefit.

Project Management and Implementation, and Project Evaluation and Monitoring

Project characteristics - pitfalls in management of a project; Techniques of management; Planning milestones - responsibility charts and principle responsibility, principles of activity planning; Project Implementation – methods, hurdles, facilitative factors; Project culture: line management, steering committee, role of project manager; Project Control: cost and time, quality - ISI standards and its application to Indian context; Introduction to Project Management Software (MS Projects) and its usage. Types of evaluation - concurrent, ex-ante and ex-post. Methods of evaluation, techniques of evaluation, end results, Presentation of evaluation findings, Techniques of Monitoring of Development Works.

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670204- LEGAL ISSUES & PROFESSIONAL PRACTICE

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670204	LEGAL ISSUES & PROFESSIONAL	70	20	10	-	-	3	1	-	4	100

Need of Urban Policy, its nature and process of making urban policy

Recent trends in urban policy planning, growth control and decline of management. Nature of urban problems, need of urban policies and its analysis.

Theoretical frameworks, the role of institutions in the policy process, and the motivation of urban policy actors. Steps in Policy Analysis: How are policies made, who influences the policy agenda and what issues affect policy's 'success' and 'failure'? what can we learn from how different nations approach similar policy problems? Case studies in policy process analysis, policy integration: possible areas of integration.

Concept of law, Indian Constitution and planning

Sources of law: custom, legislation and precedent; Meaning and terms of law: legislation, ordinance, bill, act, regulation, and bye-laws; Significance of law and its relationship to urban and regional planning. Statutory powers and responsibilities of the Central Government with respect to Urban Development and the role of implementing agencies. Critical appraisal of the 73rd and 74th Constitutional amendments, their effect on urban governance and local bodies. Legislative competence of Local, State and Central government to deal with various matters concerning Town and Country Planning.

Evolution of planning legislation & concepts

Planning in India – Overview, an over view of legal tools connected with urban and regional planning and development. Town and Country Planning Act, Improvement Trust Act, Development Authorities Act: objectives, content, procedures for provision an implementation of regional plans, master plans and land pooling schemes. Concept of Arbitration, betterment levy development charges and public participation in statutory planning process, concept of structure plan, local plan and action plan under the Law.

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Policies and acts

National Environmental Policy Act; Environmental Protection Act; Land Acquisition Act: Concepts, procedure for compulsory acquisition of property and determination of compensation. Regulatory Frameworks Governing Projects. National Rehabilitation and Resettlement Policy (2007) - Social Impact mitigation; National Environmental Policy (2006) – Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP)
Various Acts related to urban governance, planning and development organizations, land resources, environment protection, and public participation in statutory planning process; Approaches of formulation of policies, appraisal of policies.

Professional Practice

Aims and objectives of professional Institutes, sister bodies, professional role and responsibility of planning consultants, professional ethics, code of conduct and scale of professional charges; Formulation of project proposal and outlines, consultancy agreements and contracts, managerial aspects; Role in inter disciplinary groups: Appreciation of the decision-making processes and the process in relation to varied consultancy assignments of planning.

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670205- RESEARCH METHODOLOGY

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670205	RESEARCH METHODOLOGY	70	20	10	-	-	3	1	-	4	100

To introduce the students to basic principles & methods of Research, specifically in Design at Urban scale, and towards helping them conducting their own authentic & independent research. Research basics, defining research problem, Research Design, Developing a Research Plan, Plagiarism, IPR and other techno-legal aspects. Measurement and Scaling Techniques, Methods of Data Collection, Guidelines for Constructing Schedule. Sampling Fundamentals, Analysis of variance and co-variance, testing of hypothesis, Multivariate analysis technique and importance in research.

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670206- STUDIO- I

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670206	STUDIO-I	-	-	-	90	60	-	-	6	6	150

City Development Plan (Group assignment)

A City is a multi-dimensional, dynamic and a futuristic space. Understanding city involves appreciating this multi direction and include them in the city making process. A job of physical planner does not merely understand the current conflict in development but to emerge out of this and to come out with a vision for the city. To arrive at this vision, a planner needs to understand the dynamics of various components of the city and how and what level interventions can be made to achieve that vision. A group of students are expected to study a city in terms its present problems and issues and project a futuristic vision in terms of scenario building.

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670207- STUDIO- II

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional					
1.	670207	STUDIO-II	-	-	-	90	60	-	-	6	6	150

Geo-Informatics Laboratory Training

- i) The laboratory training will be conducted in accordance with the studio exercise. Introduction to Geo-informatics, introduction to Remote Sensing – Aerial and Satellite; introduction to GIS, Spatial data and Attribute data; Satellite images as input to GIS; Collection and presentation of baseline information.
- ii) The second exercise is a short and intensive exercise of one-month duration. It pertains to topical issues i.e. property tax reforms, informal sector, development of railway land, etc. The study is based on primary surveys and students are expected to analyze the information and arrive at recommendations.

Note: The student is required to undertake summer training of minimum 5 weeks after 2 semesters of course work in any government, private or research organization undertaking urban and regional planning works. The practical training will commence during the summer break between second and third semester. The students are required to give a presentation specifying the work they were involved in during their internship period. The marks for the same will be incorporated with the marks of Seminar 670303.

PROFESSIONAL TRAINING

To expose the students to the profession of planning and foster links with the industry so as to develop an understanding of professional nature of various organizations involved in the planning profession.

Aravind *Vedika* *J* *for* *BS* *im*

Master of URBAN PLANNING – III SEMESTER

670301 ELECTIVE I –

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670311/ 670312	<u>ELECTIVE – I</u>	70	20	10	-	-	3	1	-	4	100

I) 670311-INCLUSIVE URBAN PLANNING

Module 1- Understanding Inclusive Planning Definitions and components

Module 2- Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods Urban Poor, Informal Sector, Gender, Children, Elderly, Disabled, Displaced people, etc.; Slums - dimensions, causative factors, determinants, location characteristics of settlements; Informal sector - growth, characteristics, functions, economic contributions, linkages with formal sector, impact on Urban Development

Module 3- Participatory Planning Process and Policies, Programmes and Legislation Methods, role of stakeholders (including civil society organizations), etc.; Related Acts, Five-year plans, policies and programmes at various levels.

Module 4- Planning Interventions Inclusive zoning, development and building regulations, Slum Improvement.

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II) 670311- PLANNING FOR TOURISM

Introduction-Introduction to Tourism Definitions, scope, nature, classification and dimension, tourism as an industry, tourism in developed and developing world.

Tourism Sector – impacts Relationship between Tourism and Urban Development, Tourism multiplier and forecasting methods: capacity building and carrying capacity planning for tourism projects, tourism and cultural and social change: Socio-cultural problems, environmental degradation.

Planning for Tourism Nature and scope of a tourism plan- key issues and stages, data requirements, surveys, role of key players / stake holders in tourism policy and planning, sustainable tourism development planning; community planning and tourism; implementation and management, role of travel and tourism promoting agencies, monitoring the tourism development; Tourism marketing - concept, techniques and strategies.

Policies and Programmes - Tourism policies at various levels.

670302 ELECTIVE II-

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670313/ 670314	ELECTIVE -II	70	20	10	-	-	3	1	-	4	100

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I) -670313 ENVIRONMENT, DEVELOPMENT AND DISASTER MANAGEMENT

Environment, Development and Disaster Management – Interface Resource use, exploitation and conservation; Impact of human activities on environment; Environment and economy interaction, introduction to environmental accounting.

Environmental Assessment & Management- Environmental Impact Assessment, thresholds, indicators, audits, environmental certification, lifecycle analysis, environment and poverty links, environmental policy, Acts and regulations; Environmental education, participatory approaches, emerging concepts. Disaster classification, concepts, hazards, vulnerability, risks, human response to disaster, impacts

Disaster Mitigation and Management- Relevance of disaster management in development and environment, disaster preparedness, prevention, displacement and development, Role and responsibilities of government and non– government organizations, Disaster Education – awareness of individuals, communities and participation at various levels; Integrating disaster mitigation in the spatial planning process, provision of infrastructure for disaster mitigation.

Policies and Legislation- Environment and Disaster Management Policies and Legislation at various levels.

II) 670314 - ENERGY, CLIMATE CHANGE AND URBAN DEVELOPMENT

Introduction- Energy, Climate change and Urban Development Interface.

Energy Generation and Consumption- Energy Supply and Demand, Energy Consumption in cities, determinants of energy demand, phenomenon of climate change, factors influencing climate change, impacts of climate change

Energy Planning and Management, and Mitigation and Adaptation to Climate Change- Energy efficient development, Compact city form, Transit oriented development. Mechanisms and measures for mitigating and adapting to climate change at various levels

Plans, Policies and Strategies. Policies Related to energy planning, conservation, climate change mitigation and adaptation.

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670303 – SEMINAR

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670303	SEMINAR	-	-	-	-	100	-	-	6	6	100

The students are required to present a seminar ensuring the following criterion.

- Identification of topic of interest having relevance to planning profession.
- Book reviews and journal article reviews to establish the body of work existing in the selected area of work.
- Exposure to multiple view points and colloquial arguments by the stakeholders, decision makers, urban managers, advocates, technocrats, user groups, etc. on the same topic.
- Identification of key issues related to the area of work.

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670304 – PRE - DISSERTATION

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670304	PRE-DISSERTATION	-	-	-	120	80	-	-	6	6	200

To undertake work on topics of relevance to the planning profession. Students would be encouraged to select topics of relevance in contemporary context and undertake research on past initiatives and future possibilities in the area. The work would include literature review of previous initiatives in the area of research, tools and techniques developed, survey of stake holders' and expert opinions and reporting of findings in a technical report format. The student will be required to make two seminar presentations and submit a report at the end of the semester which will qualify as the literature review and research methodology component of his/her thesis in the forthcoming semester.

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Master of URBAN PLANNING – IV SEMESTER

670401 – DISSERTATION

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios (P/S)		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional					
1.	670401	DISSERTATION	-	-	-	200	300	-	-	20	20	500

The students are required to carry out independent research and prepare a thesis on a topic on urban planning selected by them and approved the faculty under the supervision of a research guide allocated by the department. Final internal presentation of each student before a committee constituted jointly by the HOD and guide is mandatory before submission. MUP dissertation can be submitted only after at least one paper is presented in international conference or published in journal. The students are required to proceed in the following manner: -

- Identification of topic of interest having relevance to planning profession, integration and application of the learnt research processes to the pre-thesis work. Book reviews and journal article compilation to establish the body of work existing in the selected area of work
- Collection of data and opinions by the stakeholders, decision makers, urban managers, advocates, technocrats, user groups, etc. on the topic selected.
- Based on the literature review and inputs from the colloquial arguments, the topics shall be finalized for thesis in the subsequent semester.
- Selection of study area, identification of extent and spread of intervention; collection of data for preparation of base map.
- Development of research thrust and work methodology.
- Identification of data sources.
- Data collection and analysis: sample determination, data tabulation (coding, de-coding, etc.), quantitative and qualitative data analysis. Appropriate and relevant data analysis 32 methods would need to be studied by individual students based on thesis topic and research area.
- Finalization of topic; formulation of problem statement, literature review, working hypothesis, research brief, research methodology, sample determination, data collection and analysis, report structuring.

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 Scheme and syllabus approved on 05/10/2016