

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

BOARD OF STUDIES MEETING
Dec 2021

DEPARTMENT OF ARCHITECTURE

Contents

Minutes	1
Agenda	2
Annexure 1	3
Annexure 2 (Syllabus)	14

Keelch *Patheem* *Vesala* *Anbar* *har* *Mathim* *for* *S/D* *Shab*

Table 1 : Courses where revision was carried out

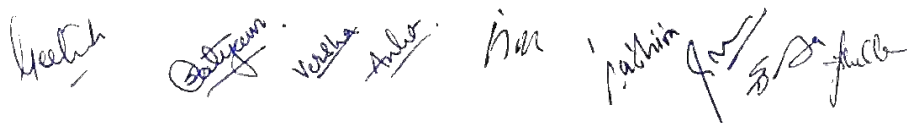
Total No. of Courses offered during July-December 2020 Session	Revision of Syllabus Carried out (No. of Courses & Course Details)	% of Courses where syllabus revision was done	% change in syllabus from existing	Item/Agenda No.	Pg. No.
31	Total =	Total % =	15%	10	6
	Architectural Design – IV (210413)	Change in Examination Scheme			
	Building Construction (210414)	Change in Examination Scheme	15%	10	6
	Building Services-I (Water Supply & Sanitation) (210415)	Change in Examination Scheme	5%	10	6
	History of Architecture-IV (210416)	Change in Examination Scheme	5%	10	6
	Structure -IV (210417)	Change in Examination Scheme	5%	10	6
	Indian constitution MA C-2 (100006)	Change in Examination Scheme	5%	10	6
	Thesis (211001)	Subject Introduced	100%	-	13
Graphics - III (210313)	Change in Syllabus	10%	26	99	

Table 2 : New courses added

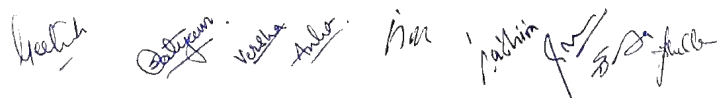
Total No. of Courses offered during July-December 2020 Session	Total No. of New courses added	Name of New courses added	Agenda/ Item No.	Pg. No.
31	6	Role of Craft and Technology in Interior - Architecture	1	6
		Visual Communication Design for Digital Media	1	6
		Principles and applications of building science	1	6
		Structural System in Architecture	3	6
		Urban Land Use and transportation planning	3	6
		Urban governance and Development Management (UGDM)	3	6

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



		Human Settlement (210511)	2	88
		Interior Design (210512)	2	89
		Estimating and Costing & Specification (210704)	-	114
		Professional Training (AR901)	-	117
		Visual Communication Design for Digital Media (210508)	1	13
		Role of Craft and Technology in Interior - Architecture (210508)	1	14
		Building Materials and Composites (210508)	1	16
		Structural System in Architecture (210751)	3	11
		Urban Land Use and transportation planning (210752)	3	9
		Urban governance and Development Management (UGDM) (210753)	3	7
		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


 A series of handwritten signatures and initials in black ink, including names like 'Rishi', 'Gurpreet', 'Vishal', 'Ankur', 'Nir', 'Nashin', and 'S/O Jitendra'.

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 22nd December 2021 at 12.30 PM on
GOOGLE MEET - meet.google.com/cbo-ytna-dfe

The following members were present-

Dr. Manmohan Kapshe	Professor, Department of Architecture and Planning, MANIT, Bhopal Subject experts from outside the parent university (RGPV)
Dr. Vasudha Gokhale	Professor, Department of Architecture, BNCA, Pune M.S. Subject experts from outside the parent university (RGPV) BoS Member
Dr. Sanjiv Singh	Professor, School of Planning and Architecture Bhopal Madhya Pradesh (M.P.) Nominee -honorable Vice – chancellor, RGPV BoS, Member
Dr. Sandip Sankat	Asso Professor, SPA, Bhopal Subject experts from outside the parent university (RGPV)
Ar. Puneet Pandey	Architect & Planner, Indore Subject experts from outside the parent university (RGPV)
Dr. S. S. Jadon	Professor, Department of Architecture MITS, Gwalior
Dr. A. S. Patil	Asso Professor, Department of Architecture MITS, Gwalior
Dr. Archana Tiwari	Professor, Department of Civil MITS, Gwalior
Dr. Sanyan Bahga	Asst. Professor, Department of Architecture MITS, Gwalior
Ar. Versha Sinha	Asst. Professor, Department of Architecture MITS, Gwalior
Ar. Ankit Kumar	Asst. Professor, Department of Architecture MITS, Gwalior
Ar. Richa Mishra	Asst. Professor, Department of Architecture MITS, Gwalior
Ar. Geetika Jha	Asst. Professor, Department of Architecture MITS, Gwalior
Ar. Harshita Mishra	Asst. Professor, Department of Architecture MITS, Gwalior
Ar. Satyam Shukla	Asst. Professor, Department of Architecture MITS, Gwalior

The minutes of the last BOS held on 7th June 2021 are confirmed and the following agenda points were discussed with the committee members and are submitted for approval.

1. Skill based mini projects are incorporated with the STUDIOS and the list is proposed.
2. Departmental Elective subjects list which are to be opted for January- June 2022 session is prepared for each 2nd year (IV semester), 3rd year (VI semester) and 4th year (VIII semester).
3. Departmental Elective subjects list which are to be opted from NPTEL/SWAYAM/MOOC platform for January- June 2022 session is prepared for each 3rd year (VI semester), 5th year (X semester).

Geetika *Satyam* *Versha* *Ankur* *Har* *Richa* *Ar* *Shukla*

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4. Reviewed and finalized the scheme & syllabi of II Semester and IV semester B.Arch courses with no revisions (As proposed in the last BOS).
5. Revised the syllabus of Graphics – III (210313) of III semester B.Arch course.
6. As per RGPV Ordinance No. 6 (C) Section 40(1) Ordinance for Bachelor of Architecture Five year Degree Course, Point No. 4.7, if a Candidate fails in Theory Or Practical Block due to insufficient marks i.e. less than 45%, He shall have to reappear for the same block in the next end semester examinations as well as in internal Exam.



Ar. Geetika Jha
Asst. Professor, Department of
Architecture MITS, Gwalior



Ar. Harshita Mishra
Asst. Professor, Department of
Architecture MITS, Gwalior



Ar. Satyam Shukla,
Asst. Professor, Department of
Architecture MITS, Gwalior



Ar. Richa Mishra
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)

Ar. Puneet Pandey

Practicing Architect & Planner
Indore

(Present)

Dr Sanjeev Singh,

Professor, School of Planning and
Architecture Bhopal (M.P.),

(Present)

Dr Vasudha Gokhale,

Professor, Department of
Architecture, BNCA, Pune M.S.

(Present)

Dr Sandip Sankat,

Asso. Professor, SPA, Bhopal

(Present)

Dr Manmohan Kapshe

Professor, Department of
Architecture and Planning, MANIT,
Bhopal,

(Present)

Dr. Archana Tiwari

Professor, Department of Civil
MITS, Gwalior

Dr. Manjaree Pandit

Dean Academics, MITS, Gwalior

DEAN (ACADEMICS)
M.I.T.S
GWALIOR



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR
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Department of Architecture

Ref.: Arch/ASP/Oct./2021/1155

Date: 04.10.2021
31.01.2022

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

Therefore for end term evaluation, 40% passing criteria will be followed by considering End sem exam and Proficiency in subject course.

Submitted for your approval and necessary action.

*The scheme is approved in AC
for undergraduate courses.*

*MHO
01/02/2022.*

DEAN (ACADEMICS)
M.I.T.S
GWALIOR

[Signature] 31.01.22
Dr. Anjali S Patil
Asso Professor & Head

Agenda of the BoS

(Approved by the Academic Development Cell for all BoS Meetings Scheduled during
December 2021)

BoS Agenda Items		
Item 1	To propose the scheme structure of VIII Semester with the provision of Two Departmental Electives and one Open Category (OC) Course, to be offered in online mode with credit transfer for the batch admitted in 2018-19.	
	Departmental Elective (DE-6)	
	S.No.	Course Name
	1	Furniture Design
	2	Sustainable Interventions in Historic Buildings
3	Environment & Architecture	
<u>Annexure - 1 (Syllabus of the Courses)</u>		
Item 2	To propose the list of courses which the students can opt from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC, to be offered in <i>online mode under Departmental Elective (DE) category</i> , for credit transfer in the <i>VIII Semester</i> under the flexible curriculum (Batch admitted in 2018-19)	
No course is opted from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC for credit transfer in the <i>VIII Semester</i>		
Item 3	To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC Platform, to be offered in <i>online mode from SWAYAM/NPTEL/MITS MOOCs/ other MOOC Platforms) under Open Category (OC) Courses</i> , for credit transfer in the <i>VIII Semester</i> under the flexible curriculum (Batch admitted in 2018-19)	
No course is opted from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC under <i>Open Category (OC) Courses</i> for credit transfer in the <i>VIII Semester</i>		
Item 4	To propose the course and syllabi of MITS MOOC Course along with the Course Outcomes for credit transfer in the <i>VIII Semester</i> under the flexible curriculum (Batch admitted in 2018-19)	
No course is proposed in the scheme.		
Item 5	To propose the list of "Additional Courses" which can be opted for getting an (i) <i>Honours (for students of the host department)</i> (ii) <i>Minor Specialization (for students of other departments)</i>	
[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the VI semester (for the batch admitted in 2019-20) and for VIII semester students (for the batch admitted in 2018-19)] As per CoA norms, Honours (for students of the host department) & Minor Specialization (for students of other departments) is not offered in the B.Arch course.		

Handwritten signatures: Katar, S, Dattajam.

Handwritten signature: Vardha

Handwritten signature: Nir

Handwritten signature: Mahim

Handwritten signature: Anubh

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Item 6	To review and finalize the syllabi for all <i>Departmental Core (DC) Courses</i> of <i>VI Semester</i> (for batches admitted in 2019-20) under the flexible curriculum along with their COs													
	Departmental Core (DC) Courses in VI Semester													
	<table border="1"><thead><tr><th>S.No.</th><th>Course Name</th><th>Course Code</th></tr></thead><tbody><tr><td>1</td><td>Architectural Design – VI</td><td>210601</td></tr><tr><td>2</td><td>Site Planning and Landscaping Architecture</td><td>210603</td></tr></tbody></table>	S.No.	Course Name	Course Code	1	Architectural Design – VI	210601	2	Site Planning and Landscaping Architecture	210603				
S.No.	Course Name	Course Code												
1	Architectural Design – VI	210601												
2	Site Planning and Landscaping Architecture	210603												
<i>Annexure - 2 (Syllabus of the Courses)</i>														
Item 7	To review and finalize the courses & syllabi to be offered (for batches admitted in 2019-20) under <i>Departmental Elective (DE) Courses</i> in the <i>VI Semester</i>													
	Departmental Elective (DE) Courses in The VI Semester													
	<table border="1"><thead><tr><th>S.No.</th><th>Course Name</th><th>Course Code</th></tr></thead><tbody><tr><td>1</td><td>Housing</td><td>210611</td></tr><tr><td>2</td><td>Architectural Journalism</td><td>210614</td></tr></tbody></table>	S.No.	Course Name	Course Code	1	Housing	210611	2	Architectural Journalism	210614				
S.No.	Course Name	Course Code												
1	Housing	210611												
2	Architectural Journalism	210614												
<i>Annexure - 3 (Syllabus of the Courses)</i>														
Item 8	To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (for batches admitted in 2019-20) in online mode under <i>Departmental Elective (DE) Courses</i> with credit transfer, in the <i>VI Semester</i>													
	Departmental Elective (DE) Courses opted From SWAYAM/NPTEL/MOOC Platforms													
	<table border="1"><thead><tr><th>S.No.</th><th>Course Name</th><th>Course Code</th></tr></thead><tbody><tr><td>1</td><td>Strategies for Sustainable Design</td><td>210615</td></tr><tr><td>2</td><td>Environmental Impact Assessment</td><td>210616</td></tr><tr><td>3</td><td>Disaster Recovery & Build Back Better</td><td>210616</td></tr></tbody></table>	S.No.	Course Name	Course Code	1	Strategies for Sustainable Design	210615	2	Environmental Impact Assessment	210616	3	Disaster Recovery & Build Back Better	210616	
S.No.	Course Name	Course Code												
1	Strategies for Sustainable Design	210615												
2	Environmental Impact Assessment	210616												
3	Disaster Recovery & Build Back Better	210616												
<i>Annexure - 4 (Syllabus of the Courses)</i>														
Item 9	To review and finalize the courses & syllabi to be offered (for batches admitted in 2019-20) under the <i>Open Category (OC) Courses</i> (in traditional mode) for <i>VI semester</i> students of other departments along with their COs													
	<u>No course</u> is opted from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC under <i>Open Category (OC) Courses</i> for credit transfer in the <i>VI Semester</i>													
Item 10	To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in VI semester (for batches admitted in 2019-20)													
	No laboratory courses in the VI semester.													

BOS, DEC 2021

DEPARTMENT OF ARCHITECTURE

Chaitan *Govind* *Bansari* *Anshu* *Vishu* *Nishu* *Kashish* *Govind* *Shubh*

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Item 11	To review and finalize the scheme and syllabi of B. Tech. IV Semester (for batches admitted in 2020-21) under the flexible curriculum along with their COs Reviewed and finalized with no revisions. <u>Annexure - 5 (Syllabus of the IV Semester)</u>												
Item 12	To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in IV (for batch admitted in 2020-21) No laboratory courses in the IV semester.												
Item 13	To review and finalize the suggestive list of projects which can be assigned under the 'Skill based mini-project' category in various laboratory courses to be offered in Jan - June 2022 semester during IV Semester (for the batch admitted in 2020-21). Skill Based Mini-Projects <table border="1"> <thead> <tr> <th>S.No.</th> <th>Course Name</th> <th>Course Code</th> <th>Skill based mini-projects</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Architectural Design IV</td> <td>210413</td> <td>Making table top models using elements of design in rural architecture based on design brief</td> </tr> <tr> <td>2</td> <td>Building construction III</td> <td>210414</td> <td>Making of models displaying modern techniques used in rural Architecture</td> </tr> </tbody> </table> <u>Annexure - 5 (Syllabus of the IV Semester)</u>	S.No.	Course Name	Course Code	Skill based mini-projects	1	Architectural Design IV	210413	Making table top models using elements of design in rural architecture based on design brief	2	Building construction III	210414	Making of models displaying modern techniques used in rural Architecture
S.No.	Course Name	Course Code	Skill based mini-projects										
1	Architectural Design IV	210413	Making table top models using elements of design in rural architecture based on design brief										
2	Building construction III	210414	Making of models displaying modern techniques used in rural Architecture										
Item 14	To ratify the Scheme & Syllabi, list of experiments and skill based mini projects of First semester of the newly started B. Tech. programmes in the emerging areas (AI & ML, AI & DS, CSD) (started from 2021-22 Session) {Applicable for the concerned departments}												
Item 15	To ratify the Scheme & Syllabi, list of experiments and skill based mini projects of First Semester B. Tech. programmes [admitted batch 2021-22 Session] (if any) Skill Based Mini-Projects <table border="1"> <thead> <tr> <th>S.No.</th> <th>Course Name</th> <th>Course Code</th> <th>Skill based mini-projects</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Architectural Design I</td> <td>210112</td> <td>Making functional objects using elements of design based on design brief</td> </tr> <tr> <td>2</td> <td>Workshop I</td> <td>210117</td> <td>Making tensile structures exploring various materials</td> </tr> </tbody> </table> <u>Annexure - 6 (Syllabus of I Semester)</u>	S.No.	Course Name	Course Code	Skill based mini-projects	1	Architectural Design I	210112	Making functional objects using elements of design based on design brief	2	Workshop I	210117	Making tensile structures exploring various materials
S.No.	Course Name	Course Code	Skill based mini-projects										
1	Architectural Design I	210112	Making functional objects using elements of design based on design brief										
2	Workshop I	210117	Making tensile structures exploring various materials										
Item 16	To prepare and recommend the Scheme & Syllabi (along with the Course Outcomes) of II semester of the newly started B. Tech. programmes in the emerging areas (AI & ML, AI & DS, CSD) (started from 2021-22 Session) {Applicable for the concerned departments}												
Item 17	To prepare and recommend the list of experiments and skill based mini projects of II semester of the newly started B. Tech. programmes in the emerging areas (AI & ML, AI & DS, CSD) (started from 2021-22 Session) {Applicable for the concerned departments}												

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Item 18	To review and finalize the <i>Scheme & Syllabi (along with the Course Outcomes) of II semester B. Tech. programmes (batch admitted 2021-22 Session)</i> Reviewed and finalized with no revisions. <i>Annexure - 7 (Syllabus II Semester)</i>																				
Item 19	To review and finalize the <i>list of experiments and skill based mini projects of II semester B. Tech. programmes (batch admitted 2021-22 Session)</i> Skill Based Mini-Projects <table border="1"> <thead> <tr> <th>S.No.</th> <th>Course Name</th> <th>Course Code</th> <th>Skill based mini-projects</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Architectural Design II</td> <td>210211</td> <td>Making table top models on the basis of Design brief</td> </tr> <tr> <td>2</td> <td>Building construction I</td> <td>210212</td> <td>Making simple forms of brick (types of walls/Joints/Jaali Pattern, etc.)</td> </tr> <tr> <td>3</td> <td>Graphics II</td> <td>210213</td> <td>Sciography captured through Photography of buildings</td> </tr> <tr> <td>4</td> <td>Workshop II</td> <td>210217</td> <td>Product Design through Carpentry</td> </tr> </tbody> </table> <i>Annexure - 7 (Syllabus II Semester)</i>	S.No.	Course Name	Course Code	Skill based mini-projects	1	Architectural Design II	210211	Making table top models on the basis of Design brief	2	Building construction I	210212	Making simple forms of brick (types of walls/Joints/Jaali Pattern, etc.)	3	Graphics II	210213	Sciography captured through Photography of buildings	4	Workshop II	210217	Product Design through Carpentry
S.No.	Course Name	Course Code	Skill based mini-projects																		
1	Architectural Design II	210211	Making table top models on the basis of Design brief																		
2	Building construction I	210212	Making simple forms of brick (types of walls/Joints/Jaali Pattern, etc.)																		
3	Graphics II	210213	Sciography captured through Photography of buildings																		
4	Workshop II	210217	Product Design through Carpentry																		
Item 20	To propose the course "Economics Entrepreneurship & Management" and its syllabi along with the Course Outcomes (COs) for the V Semester B.Tech. (Batch admitted 2020-21 onwards). <i>{to be proposed and recommended by Management Department}</i>																				
Item 21	To revise and recommend the course "Energy, Environment, Ecology & Society" and its syllabi along with the Course Outcomes (COs) for the III Semester B.Tech. (Batch admitted 2021-22 onwards). <i>{inclusion of contents related to "Sustainability" is to be done}</i> <i>{to be proposed and recommended by the Civil Engineering Department}</i>																				
Item 22	To propose a new course: Universal Human Values & Professional Ethics (HVPE) & its syllabi along with the Course Outcomes (COs), as Mandatory Course (MC) for the batch admitted in 2020-21 onwards <i>{A portion on 'gender sensitization' also to be included in the syllabus of this course}</i> <i>{to be proposed and recommended by Humanities Department}</i>																				

Handwritten signatures and initials:
 Keshav, Anil, Satyajeet, Vansh, S. D. J. N. M., Kishan, R. M., J. Shella

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To review the CO attainments, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels for (i) 1 year April-September 2021 Semester (ii) January-June 2021 Session for II to IV year students

List of subjects and their CO whose target levels are not achieved (Session Jan - June, 2021)

Semester	Subject Name	CO attainment (Target not Achieved)	Action Taken	
Semester - II	History of Architecture - II (210215)	C O 2	Students will be able to apply the North Indian temple Architecture style and elements in their own design.	Additional Classes (by experts) enunciating the North Indian Temple Architectural Style and explanatory videos by Canonical sources.
		C O 3	Students will be able to apply the South Indian temple Architecture style and elements in their own design.	Additional Classes (by experts) enunciating the South Indian Temple Architectural Style and explanatory videos by Canonical sources.
		C O 4	Students will be able to apply elements and concepts of Islamic in their own design.	Additional Classes (by experts) enunciating the Islamic Architectural Style and explanatory videos by Canonical sources.
		C O 5	Students will be able to apply elements of forts and palaces in their own design.	Additional Classes (by experts) enunciating the Palatial Architectural Style and explanatory videos by Canonical sources.
Semester - IV	Building Services - I (210403)	C O 3	Design Plumbing layout with working drawing and specifications for buildings.	More tutorials for plumbing layouts, real drawings and explanatory additional classes by experts.
		C O 5	Apply all the above systems to Buildings, Small Campus and a Residential neighborhood.	Incorporating all services in the running Design problem. Coordinating and keep a tab with floated Design problems.
Semester - VI	Building Services - III (210602)	C O 3	Apply basic concept of firefighting systems in different types of buildings	More tutorials for firefighting systems. real details & drawings and explanatory additional classes by experts.
	Site Plan. & Landscaping (210608)	C O 3	Examine various parameters of site analysis along with different site influencing factors like topography, hydrology, soil, landforms etc.	Additional Classes by experts on the topic and the practical aspect of the subject needs to be explored more through surveys and site visits.
		C O 4	Illustrate contours as representation of landforms and its application in analysis of various physical characteristics like grading, drainage pattern, etc.	Additional Classes by experts on the topic.
	Arch. Journalism (210614)	C O 1	Elaborate basic concepts of journalism with the main focus on various aspects of architectural journalism.	Additional Classes (by experts) enunciating the basic concepts and explanatory videos by Canonical sources.
C O 4		Prepare architectural photography report	This practical aspect of the subject needs to be explored more through surveys and site visits.	
Semester - VIII	Disaster Management (100007)	C O 2	Understanding various terminologies like recovery, rehabilitation, response, mitigation and their execution.	Additional Classes (by experts) enunciating the basic definitions and explanatory videos by Canonical sources.

Annexure - 8 (Direct CO Attainment & Indirect CO Attainment)

Item 23

Handwritten signatures and initials:
 Keshav, Anshu, Satyajeet, Veeha, S, Han, Hashim, J, Jull

To review curricula feedback from various stakeholders, its analysis and impact

{Stakeholder feedback analysis must also contain an action taken report (ATR) and the details/data of the stakeholder who have responded through GOOGLE form (such as Name, organization, mail id, phone no if available) must also be shared along with the feedback for the alumni/employer.}

Stakeholder feedback analysis

Stakeholder	Student	Faculty	Alumni	Employer
No. of responses	82	11	37	42
Link of Analysis	https://drive.google.com/file/d/1HQiEvjZc-5zHdKgmX_Y0Q1wvdp0pBQ3V/view?usp=sharing			
ATR Link	https://docs.google.com/document/d/1np9bs9Wp5L-Iyu7SjiwBDqTzA8233sZk2zybViALoEI/edit?usp=sharing			
Link showing Excel sheet of Google Form details of stakeholders	https://drive.google.com/drive/folders/1OmcpCLhv1TNGHr_oRqQBz-5UcqR8OgAe?usp=sharing	https://docs.google.com/spreadsheets/d/11drlP14YcOUF5qC5NOJh4GrPkCaSBa/edit?usp=sharing&ouid=114031539153073184348&rtmpof=true&sd=true	https://docs.google.com/spreadsheets/d/1H1Olw5Ax9sjWUlwndQT0a4o83v4wQInxmmqFK9H0Ouk/edit?usp=sharing	https://docs.google.com/spreadsheets/d/1abvycorV3m8wG47iJPDxMDo2Me7k0nIxBEYHK-AUO6k/edit?usp=sharing

Annexure - 9 (Stakeholder feedbacks)

To review **Course Outcomes (COs)** feedback of various courses, its analysis and impact.

Course Outcomes (COs) feedback of various courses reviewed with analysis and impact.
Annexure - 10 (CO feedbacks)

Any other matter

Revision in the syllabus of the subject – Graphics III (210313) of III Semester B.Arch.

Annexure - 11 (Syllabus of the course)

Courses focusing on employability/entrepreneurship/ skill development in II, IV, VI & VIII Semester

1. Graphics II (210213)
2. Workshop II (210217)
3. Housing (210611)
4. Architectural Journalism (210614)
5. Strategies for Sustainable Design (210615)
6. Environmental Impact Assessment (210616)
7. Disaster Recovery & Build Back Better (210617)
8. Professional Practice & Ethics (210803)
9. Furniture Design (210811)
10. Sustainable interventions in historic Buildings (210814)
11. Environment & Architecture (210315)

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12. Dissertation (210804)
13. City & Metropolitan (670201)
14. Urban Heritage Conservation (670202)
15. Urban Development Finance & Project Planning (670203)
16. Legal Issues & Professional (670204)
17. Research Methodology (670205)
18. Studio-I (670206)
19. Studio-I (670207)
20. Dissertation (670401)

Annexure - 12 (Scheme & Syllabus of the Courses) , Annexure - 3 (Syllabus of the Courses)
Annexure - 4 (Syllabus of the Courses) , Annexure - 1 (Scheme & Syllabus of the Courses) , Annexure - 11 (Scheme & Syllabus of the Courses)

New Courses added through NPTEL/SWAYAM/COURSERA in X Semester

PROFESSIONAL CERTIFICATION COURSE Departmental Elective (DE-7)		
S.No.	Course Name	Course Code
1	Environmental Impact Assessment (NPTEL)	2101011
2	GIS (NPTEL)	2101012
3	BIM (Coursera)	2101013
4	Google UX (Coursera)	2101014

Annexure - 13 (Syllabus of the Courses)

COURSE MODULE FOR SUMMER INTERNSHIP PROJECT (TO BE HELD AFTER 2ND SEMESTER)			
S.No.	Module Name	Module Code	About
1	Heritage & Tourism (SIP 1)	AR0322S1	Students understand the relationship of traveling to experience the places, artifacts and activities that authentically represent the stories and people of the past" and "heritage tourism can include cultural, historic and natural resources".
2	Design Thinking (SIP 2)	AR0322S2	Students learn the process for solving problems by prioritizing the consumer's needs above all else with observing, with empathy and employing an iterative, hands-on approach to creating innovative solutions.
3	Digital Painting (SIP 3)	AR0322S3	Students learn traditional painting techniques such as watercolor, oils, impasto, etc. are applied using digital tools by means of a computer, a graphics tablet and software.

As per RGPV Ordinance No. 6 (C) Section 40(1)
 Ordinance for Bachelor of Architecture Five year Degree Course
 Point No. 4.7

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If a Candidate fails in Theory Or Practical Block due to insufficient marks i.e. less than 45%, He shall have to reappear for the same block in the next end semester examinations as well as in internal Exam.

Annexure - 14 (RGPV Ordinance NO. 6 (C) Section 40(1) Ordinance for Bachelor of Architecture Five year Degree Course)

BOS, DEC 2021

DEPARTMENT OF ARCHITECTURE

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2101012	The participants will be exposed to Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Thermal Remote Sensing, Spectral Signatures of Different Land cover Features and Visual Image interpretation and Hyperspectral Remote Sensing technology. The course also includes various digital Image processing techniques namely Image Rectification and Registration, Image Enhancement techniques, Image Classification Techniques and Accuracy Assessment.	26	119	
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BOS, DEC 2021

DEPARTMENT OF ARCHITECTURE

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Vishu

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DEPARTMENT OF ARCHITECTURE

Summary of the meeting of Board of Study of Architecture Department

Feedback on curriculum received from stakeholders: Analysis & ATR

Stakeholder	Student	Faculty	Alumni	Employer
No. of responses	82	11	37	42
Link of Analysis	https://drive.google.com/file/d/1HOiEviZc-5zHdKgmX_Y0Q1wvpd0pBQ3V/view?usp=sharing			
ATR Link	https://docs.google.com/document/d/1np9bs9Wp5LzIyu7SjwBDqTZa8233sZk2zybViALoE1/edit?usp=sharing			
Link showing Excel sheet of Google Form details of stakeholders	https://drive.google.com/drive/folders/1OmcpCLhv1TNGHr_oRqQBz-5UcqR8OgAc?usp=sharing	https://docs.google.com/spreadsheets/d/11drlP141YcOUF5qC5NOtJh4GrPkCaSBa/edit?usp=sharing&ouid=114031539153073184348&ripof=true&sd=true	https://docs.google.com/spreadsheets/d/1H1Olw5Ax9sjWUlwndQT0a4o83v4wQInxmmqFK9H0Ok/edit?usp=sharing	https://docs.google.com/spreadsheets/d/1abvyeoT3m8wG47iJPDxMDo2Me7k0nlxBEYHK-AUO6k/edit?usp=sharing

BOS, DEC 2021

DEPARTMENT OF ARCHITECTURE

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MADHAV UNIVERSITY
(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)
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								Skill based mini project
				End Sem.	Proficiency in subject/course	Mid Sem											
1.	210211	Architectural Design II	DC-4	100	20	20	20	50	30	10	2	3	2*(1.5)	8	Offline**	AO	
2.	210212	Building Construction I	BSAE-3	50	10	20	20	20	20	10	2	1	2*(1.5)	6	Blended** (3/3)	PP	
3.	210213	Graphics II	DC-5	50	10	20	20	20	20	10	1	1	2	3	Offline**	AO	
4.	210214	Structure II	BSAE-4	50	10	20	20	-	-	-	2	1	-	3	Offline**	PP	
5.	210215	History of Architecture II	DC-6	50	10	20	20	-	-	-	2	1	-	3	Blended* (2/1)	PP	
6.	210216	Theory of Design	DC-7	50	10	20	20	-	-	-	2	-	-	2	Blended* (2/1)	pp	
7.	210217	Workshop II	SEC-3	-	-	-	-	20	20	10	-	-	4	2	Offline**	-	
		Total		350	70	120	120	110	90	40	11	7	10	27			

Summer Internship Project I (Institute level)(Qualifier): Minimum two weeks duration includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained etc. in that particular course/subject

*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		Studio		
Offline	Online	Blended	Blended	PP	AO	MCQ	SO	
10	-	3	6	11	7	-	9	27
37%	-	11%	22%	41%	26%	-	33%	%

DEAN (ACADEMICS)
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Signature
Date 3.1.22

**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		Skill based mini project									
				End Sem.	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	20	50	30	10	2	2	2*(1.5)	7	Offline**	AO			
2.	210414	Building Construction III	BsAE-8	50	10	20	20	20	20	20	20	10	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	20	-	-	-	2	1	-	3	Offline***	PP			
4.	210416	History of Architecture IV	DC-11	50	10	20	20	20	20	-	-	-	2	1	-	3	Blended* (2/1)	PP			
5.	210417	Structure IV	BsAE-10	50	10	20	20	20	20	-	-	-	2	1	-	3	Offline***	PP-			
6.	-	ELECTIVE I	DE-1	50	10	20	20	20	20	-	-	-	2	1	-	3	Blended* (2/1)	PP			
7.	-	Novel engaging courses	CLC	-	-	-	-	-	-	-	50	-	-	-	2	1	Interactive	SO			
8.	210419	Tour/ Seminar / Workshop/ NASA Training during winter break	SEC-5	-	-	-	-	-	-	50	-	-	-	-	2	1	Offline	SO			
Total				350	70	120	120	120	120	120	100	20	900	12	6	10	27				
9.	*1000001	Indian constitution & Traditional Knowledge	MAC-2	50	10	20	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	Studio					
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
10	-	4	5	8	14	4	9	27
37%	-	11.58%	18%	48%	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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 Mahavir
 Vaidy
 Nishu
 Vikas
 Shubhanshu
 Shubhanshu

B. Arch. Scheme Structure & Semester-Wise Credit Distribution (Under Flexible Curriculum)

Bachelor of Architecture, Third Year, VI Semester

2017-2018 batch onwards

S.No	Subject Code	Subject Name	Category	Maximum Marks Allotted					MOOC	Total Marks	Contact Periods per week			Total Credits	
				Theory Slot		Practical Slot					L	T	P		
				End Sem.	Mid Sem Exam.	Quiz/Assignment/Sessional	End Sem.	Lab work & Sessional							Exam
1.	210601	Architectural Design - VI	DC-13	100	30	20	50	100		8	2	2	4*(1.5)	10	
2.	210602	Building Services-III (Acoustic & Fire Fighting)	BSE-14	50	30	20	-	-		4	3	1	-	4	
3.	210608	Site Planning and Landscaping Architecture	DC-14	50	30	20	-	-		3	2	1	-	3	
4.	210604	Working Drawing	PAEC-2	-	-	-	20	30		4	-	-	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	75	800	26	10	7	10	26

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

S no	Elective	Sub code	Sub Name	Remark
1	ELECTIVE-III	210611	Housing	
		210614	Architectural Journalism	
2	ELECTIVE- IV*	210615	Strategies for Sustainable Design	opted from NPTEL platform
		210616	Environmental Impact Assessment	
		210617	Disaster Recovery & Build Back Better	

* 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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Bachelor of Architecture, Fourth Year, VIII Semester

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
1.	210801	Architectural Design - VIII	DC-17	-	-	150	100	8	-	-	8*(1.5)	12	
2.	210802	Urban Design	DC-18	50	30	20	30	5	2	1	2	4	
3.	210803	Professional Practice & Ethics	PAEC-5	50	30	-	-	100	3	2	1	3	
4.	210804	Dissertation	PAEC-6	-	-	20	30	50	4	-	4	2	
5.	100007	Disaster management (MC)	MC-4	70	20	-	-	100	3	2	1	3	
6.	210805	ELECTIVE- VI	DE-6	50	30	-	-	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	240	160	800	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	
		210814	Sustainable Interventions in Historic Buildings	
		210815	Environment & Architecture	

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Bachelor of Architecture, Fifth Year, X Semester

2017-2018 batch onwards

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

S no	Elective	Sub code	Sub Name	Remark
1	ELECTIVE-VIII	2101011	Environmental Impact Assessment (NPTEL)	opted from NPTEL/COURSEERA platform
		2101012	GIS (NPTEL)	
		2101013	BIM (Courseera)	
		2101014	Google UX (Courseera)	

• Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC

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Dr. Verma
Dr. Verma
Dr. Verma
Dr. Verma

DEAN (ACADEMICS)
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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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Scheme and syllabus approved on 05/10/2018

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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Scheme and syllabus approved on 05/10/2018

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.

Vishaly Sharma *[Signature]* *[Signature]* *[Signature]* *[Signature]*
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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.

Vereha
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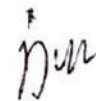
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- Appreciation / Analysis of ward level data.
 - Perception of areas in terms of legal / illegal / authorized / unauthorized, Slums, Urban Aesthetics.
 - Social Categorizations of people - Type of population living, people's perception about area and 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.

*Venka
Srivastava*



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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.

Amulya *Vivek* *J* *J* *ES* *Pr*
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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.

Shweta *Vesha* *J* *RS* *im*

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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* *BJS* *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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