

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

BOARD OF STUDIES MEETING
July 2017

DEPARTMENT OF ARCHITECTURE

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Table 1 : Courses where revision was carried out

Total No. of Courses offered during July 2017 - June 2018 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.
62	Total = 16		25%	-	116
	Architecture Design – I (210101)	Change in Credits only		-	
	Architectural Materials (210102)	Change in Credits only	0%	-	116
	Graphics – I (210103)	Change in Credits only	45%	-	116
	Fundamental of Structural behavior (210104)	Change in Credits only	0%	-	116
	History of Architecture- I (210105)	Subject Introduced	100%	-	116
	English Language (Architecture Appreciation (210106)	Change in Credits only	20%	-	116
	Comp. Application in Architecture (AR106)	Subject Dissolved	-	-	116

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Environmental Science (ML110)	Subject Dissolved	-	-	116
Architecture Design – II (210201)	Change in Credits only	40%	-	117
Building Construction - I (210202)	-	60%	-	117
Graphics – II (210203)	-	20%	-	117
Analysis of Structures (210204)	Change in Credits only	70%	-	117
History Of Architecture- II (210205)	Change in Credits	100%	-	117
Theory Of Design (210206)	Change in Credits only	50%	-	117
Workshop-II (210207)	Change in Credits only	40%	-	117
Rural Studies (HU112)	Subject Dissolved	-	-	117

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Table 2 : New courses added

Total No. of Courses offered during July 2017 - June 2018 Session	Total No. of New courses added	Name of New courses added	Agenda/ Item No.	Pg. No.
62	18	Elective-I (Graphic Design)	-	6
		Elective-I (Animation)	-	6
		Elective-I (Design Thinking)	-	6
		Elective-III (Conservation)	-	8
		Elective-III(Disaster Management & Earthquake resistant Structures)	-	8
		Elective-III (GIS and Remote Sensing)	-	8
		Inclusive Urban Planning (Elective -I)	-	94
		Planning for Tourism (Elective -I)	-	94
		Environment, Development and Disaster Management (Elective - II)	-	94
		Energy, Climate change and Urban Development (Elective - II)	-	94
		Elective-II (Vastu)	-	7
		Elective-II (Sustainable Architecture)	-	7
		Elective-II (Intelligent Buildings)	-	7
		Elective-II (Housing)	-	7
		Elective-IV (Interior Design)	-	9
		Elective-IV(Product Design)	-	9
		Elective-IV(Film / Set design)	-	9
		Elective-IV(Architectural Journalism)	-	9

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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.
83	44	English Language (Architectural Appreciation)	-	2
		Workshop - I	-	2
		Elective-I (Graphic Design)	-	6
		Elective-I (Animation)	-	6
		Elective-I (Design Thinking)	-	6
		Project Management & Building Economics	-	8
		Elective-III (Conservation)	-	8
		Elective-III(Disaster Management & Earthquake resistant Structures)	-	8
		Elective-III (GIS and Remote Sensing)	-	8
		Training	-	10
		Planning History & Theories	-	92
		Socio-Economic Basis for Planning	-	92
		Planning Techniques	-	92
		Infrastructure & Transportation Planning	-	92
		Housing & Environmental Planning	-	92
		Studio Course-I	-	92
		Studio Course-II	-	92
		Inclusive Urban Planning (Elective -I)	-	94
Planning for Tourism (Elective -I)	-	94		

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		Environment, Development and Disaster Management (Elective - II)	-	94
		Energy, Climate change and Urban Development (Elective - II)	-	94
		Seminar	-	94
		Dissertation	-	94
		Workshop - II	-	3
		Specification, Estimating & Costing	-	7
		Town Planning	-	7
		Elective-II (Vastu)	-	7
		Elective-II (Sustainable Architecture)	-	7
		Elective-II (Intelligent Buildings)	-	7
		Elective-II (Housing)	-	7
		Professional Practice	-	9
		Elective-IV (Interior Design)	-	9
		Elective-IV(Product Design)	-	9
		Elective-IV(Film / Set design)	-	9
		Elective-IV(Architectural Journalism)	-	9
		Training	-	11
		City & Metropolitan	-	93
		Urban Heritage Conservation	-	93
		Urban Development Finance & Project Planning	-	93
		Legal Issues & Professional	-	93
		Research Methodology	-	93
		Studio-I	-	93
		Studio-II	-	93
		Thesis Project	-	95

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Madhav Institute of Technology and Science, Gwalior
DEPARTMENT OF ARCHITECTURE

Minutes of Board of Study of Architecture Meeting

The minutes of Board of Studies of Architecture was held on 07th July 2017 at 1.30 PM in the office of Head, Department of Architecture.

The following members were present:

1. Prof. (Mrs.) Kalpana Pandit, MNIT, Jaipur
2. Ar. P. N. Mishra, Ret. Add. Director, T & C, MP Govt. Bhopal M.P.
3. Dr. Alok Sharma, Professor & Head, Department of Architecture MITS, Gwalior
4. Prof. L. K. Jain, Professor, Department of Architecture MITS, Gwalior
5. Dr. S. S. Jadon, Professor, Department of Architecture MITS, Gwalior
6. Dr. A. S. Patil, Asst. Professor, Department of Architecture MITS, Gwalior

Leave of absence was granted to Dr. Y. K. Garg, Professor, MANIT, Bhopal the member who could not attend the meeting.

The following scheme of evaluation and detailed syllabus were discussed and recommended for consideration.

New grading scheme for B. Architecture (4+1) degree programme & Masters of Urban Planning is proposed and recommended to be implemented w.e.f July 2017.

The detail syllabus of First Year for the new proposed scheme for the B. Architecture programme (4+1) degree & syllabus of third year for CBCS scheme for B. Architecture is prepared and annexed for consideration.

Syllabus for Masters of Urban Planning grading scheme First Year & old scheme Second year is prepared & annexed.



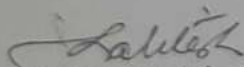
(Ar. P.N. Mishra)
Ret. Add. Director,
T & C, MP Govt.
Bhopal M.P.



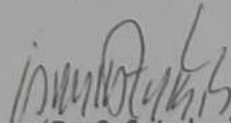
(Prof. Kalpana Pandit)
Associate Prof., MNIT,
Jaipur



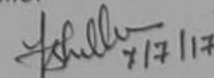
(Dr. Alok Sharma)
Professor & Head,
Department of Architecture MITS,
Gwalior



(Prof. L.K. Jain) 07/07/17
Professor, Department of
Architecture MITS, Gwalior



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



(Dr. A. S. Patil)
Asst. Professor, Department of
Architecture MITS, Gwalior

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR - 474005
(An Autonomous Institute Under the Patronage of Madhya Pradesh State)
 SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEP July 2017 (GRADING NEW)

FIRST YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted							Total credits
			Theory			Practical		Credits Allotted		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional	Theory <small>(Teaching Hours-Credit)</small>	Practical <small>(Teaching Hours-Credit)</small>	
✓ 1	210101	Architecture Design - I (S)	100	20	10	50	100	4	4	8
2	210102	Architectural Materials (T)	50	20	10	-	-	2	-	2
✓ 3	210103	Graphics - I (S)	50	20	10	50	100	2	4	6
4	210104	Fundamental of Structural behavior (T)	50	20	10	-	-	2	-	2
5	210105	History of Architecture - I (T)	50	20	10	-	-	2	-	2
6	210106	English Language (Architecture Appreciation) (T)	50	20	10	-	-	2	-	2
✓ 7	210107	Workshop - I (S)	-	-	-	20	50	-	2	2
Total			350	120	60	120	250	14	10	24

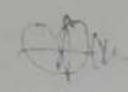
EPA in the scheme

Ref 32D
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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005
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 SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR SECOND SEMESTER

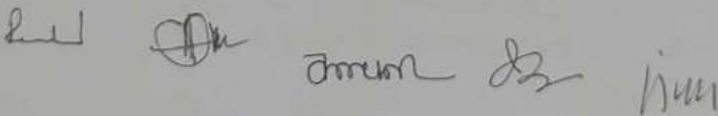
S.No	Subject Code	Subject Name	Maximum Marks Allotted							Total credits
			Theory			Practical		Credit Allotted		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional	Theory (Teaching Hours/Credits)	Practical (Teaching Hours/2xCredits)	
1	210201	Architectural Design - II ^{TCS}	100	20	10	50	100	4	4	8
2	210202	Building Construction ^{TCS}	50	20	10	25	50	2	2	4
3	210203	Graphics - II ^{TCS}	50	20	10	25	50	2	2	4
4	210204	Analysis of Structures ^T	50	20	10	-	-	2	-	2
5	210205	History Of Architecture - II ^T	50	20	10	-	-	2	-	2
6	210206	Theory Of Design ^T	50	20	10	-	-	2	-	2
7	210207	Workshop-II ^S	-	-	-	20	50	-	2	2
Total			350	120	60	120	250	14	10	24

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 (An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidhyalaya, Bhopal)
SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

SECOND YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional				
1.	210301	Architectural Design – III	100	20	10	50	150	2	-	6	8
2.	210302	Building Construction - II	50	20	10	50	50	3	-	3	6
3.	210303	Graphics – III	-	-	-	50	50	1	-	2	3
4.	210304	Structures-III	50	20	10	-	-	2	1	-	3
5.	210305	History Of Architecture-III	50	20	10	-	-	2	1	-	3
6.	210306	Surveying Leveling & Site Planning	50	20	10	-	50	2	-	2	4
7.	210307	Art Major Idea Generation	-	-	-	50	50	-	-	3	3
			300	100	50	200	350	12	2	16	30



Scheme and syllabus approved on – 07/07/2017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

SECOND YEAR SECOND SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory		Practical			Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional				
1.	210401	Architectural Design - IV	100	20	10	50	150	2	-	6	8
2.	210402	Building Construction - III	50	20	10	50	50	2	-	3	5
3.	210403	Building Services-I (Water & Sanitation)	50	20	10	-	20	2	1	-	3
4.	210404	Structures-IV	50	20	10	-	-	2	1	-	3
5.	210405	History Of Architecture-IV	50	20	10	-	-	2	1	-	3
6.	210406	Site Planning & Landscaping	50	20	10	50	50	2	-	2	4
7.	210407	Measurement Drawing	-	-	-	-	50	1	-	3	4
			350	120	60	150	320	13	3	14	30

Handwritten signatures and initials are present below the table.

Scheme and syllabus approved on - 07/07/2017

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 (An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidhyalaya, Bhopal)
SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

THIRD YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional				
1.	210501	Architectural Design – V	100	20	10	50	150	2	-	6	8
2.	210502	Building Construction - IV	50	20	10	50	50	2	-	4	6
3.	210503	Building Services-II (Electrical & Mechanical)	50	20	10	-	20	2	1	-	3
4.	210504	Building Sciences	50	20	10	-	20	2	2	-	4
5.	210505	Ecology & Environment	50	20	10	-	10	2	1	-	3
6.	210506	Elective-I 1. Architectural Presentation techniques 2. Graphic Design 3. Animation 4. Design Thinking	-	-	-	50	50	2	1	-	3
7.	210507	NASA/ Group work *	-	-	-	-	100	-	-	3	3
			300	100	50	150	400	12	5	13	30

Elective-I 1. Architectural Presentation techniques 2. Graphic Design 3 Animation 4. Design Thinking

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Scheme and syllabus approved on – 07/07/2017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005
 (An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidhyalaya, Bhopal)
SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

THIRD YEAR SECOND SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional				
1.	210601	Architectural Design – VI	100	20	10	50	150	2	-	6	8
2.	210602	Building Construction - V	50	20	10	50	50	2	-	3	5
3.	210603	Advanced Building Services	50	20	10	-	-	2	1	-	3
4.	210604	Specification, Estimating & Costing	50	20	10	-	20	2	1	-	3
5.	210605	Town Planning	50	20	10	-	20	2	2	-	4
6.	210606	Elective-II 1. Vastu 2. Sustainable Architecture 3. Intelligent Buildings 4. Housing	50	20	10	-	30	2	1	-	3
7.	210607	Working Drawing	-	-	-	50	50	1	-	3	4
			350	120	60	150	320	13	5	12	30

Elective-II - 1. Vastu 2. Sustainable Architecture 3. Intelligent Buildings, 4. Housing

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Scheme and syllabus approved on - 07/07/2017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005
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 SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FOURTH YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical /Studies	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional				
1.	210701	Architectural Design - VII	-	20	10	100	250	3	-	6	9
2.	210702	Advanced Building Construction - I	50	20	10	50	50	2	-	2	4
3.	210703	Advanced Structure Design	50	20	10	-	-	2	1	-	3
4.	210704	Project Management & Building Economics	50	20	10	-	-	2	2	-	4
5.	210705	Elective-III 1. Conservation, 2. Disaster Management & Earthquake resistance Structures, 3. G.I.S and Remote Sensing	50	20	10	50	50	2	-	3	5
6.	210706	Dissertation	-	-	-	50	50	2	-	3	5
			200	100	50	250	400	13	3	14	30

Elective-III - 1. Conservation, 2. Disaster Management & Earthquake resistance Structures, 3. G.I.S and Remote Sensing

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005
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 SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FOURTH YEAR SECOND SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional				
1.	210801	Thesis	-	-	-	200	400	4	-	13	17
2.	210802	Urban Design	50	20	20	-	50	3	-	2	5
3.	210803	Professional Practice	50	20	10	-	-	2	1	-	3
4.	210804	Elective-IV 1. Interior Design, 2. Product Design, 3. Film / Set design 4. Architectural Journalism	50	20	10	50	50	2	-	3	5
			150	60	40	250	500	11	1	18	30

Elective-IV – 1. Interior Design, 2. Product Design, 3. Film / Set design 4. Architectural Journalism

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005
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 SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIFTH YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional				
1.	210901	Training	.	.	.	300	200	.	.	.	20

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005
 (An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidhyalaya, Bhopal)
 SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIFTH YEAR SECOND SEMESTER

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.	211001	Training	-	-	-	250	200	-	-	-	18
2.	211002	General proficiency	-	-	-	50	-	-	-	-	2
			-	-	-	300	200	-	-	-	20

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

(An Autonomous Institute under rajivGandhiProudyogikiVishwavidyalaya, Bhopal)

July 2015 Batch (adm. Head)

CBCS SCHEME OF EXAMINATION- BACHELOR OF ARCHITECTURE

THIRD YEAR FIFTH SEMESTER

Sl. No	Subject Code	Subject Name	Maximum Marks Allotted										Total credits
			Theory			Practical			Credit Allotted				
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work	Assignment/ Quiz	Theory	Practical	Theory	Practical	
1	AR501	Architectural Design - V	100	20	10	50	100	10	3	3	6		
2	AR502	Building Construction - IV	50	20	10	50	50	10	3	2	5		
3	AR503	Building Services-II (Electrical & Mechanical)	50	20	10	-	20	10	2	1	3		
5	AR504	Disaster Management	50	20	10	-	20	10	2	1	3		
6	AR505	Ecology & Environment	50	20	10	-	-	10	2	1	3		
7	AR506	Elective-I	-	-	-	50	50	10	-	2	2		
		1. Graphic Design	-	-	-	-	-	-	-	-	-		
		2. Animation	-	-	-	-	-	-	-	-	-		
8	AR507	3. Design Thinking	-	-	-	-	-	-	-	-	2		
		NASA/ Group work	-	-	-	100	-	-	-	-	2		
Total			300	100	50	150	340	60	12	12	24		

M. S. D. S.





DM

pm

J. S. S.

THIRD YEAR FIFTH SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted						Credit Allotted		Total credits
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work	Assignment/ Quiz	Theory	Practical	
1	AR501	Architectural Design - V	100	20	10	50	100	10	3	3	6
2	AR502	Building Construction - IV	50	20	10	50	50	10	3	2	5
3	AR503	Building Services-II (Electrical & Mechanical)	50	20	10	-	20	10	2	1	3
5	AR504	Disaster Management	50	20	10	-	20	10	2	1	3
6	AR505	Ecology & Environment	50	20	10	-	-	10	2	1	3
7	AR506	Elective-I	-	-	-	50	50	10	-	2	2
		1. Graphic Design	-	-	-	-	-	-	-	-	-
		2. Animation	-	-	-	-	-	-	-	-	-
8	AR507	3. Design Thinking	-	-	-	-	100	-	-	2	2
		NASA/ Group work	-	-	-	-	340	60	12	12	24
Total			300	100	50	150	340	60	12	12	24

S.No	Subject Code	Subject Name	Maximum Marks Allotted						Teaching Hours per Week			Total credits
			Theory			Practical			Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional	Assignment/ Quiz				
1.	AR501	Architectural Design - V	100	20	10	50	100	10	3	-	6	6
2.	AR502	Building Construction - IV	50	20	10	50	50	10	3	-	4	5
3.	AR503	Building Services-II (Electrical & Mechanical)	50	20	10	-	20	10	2	1	-	3
4.	AR504	Disaster Management	50	20	10	-	20	10	2	2	-	4
5.	AR505	Ecology & Environment	50	20	10	-	-	10	2	2	2	3
5.	AR506	Elective-I 1. Graphic Design 2. Animation 3. Design Thinking	-	-	-	50	50	10	2	1	-	3
7.	AR507	NASA/ Group work	-	-	-	-	100	-	14	4	4	2
			300	100	50	150	340	60	14	4	16	26

Elective-I 1. Graphic Design 2. Animation 3. Design Thinking

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Scheme and syllabus CBCS approved on -07/07/2017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005





(An Autonomous Institute under rajivGandhiProudyogikiVishwavidyalaya, Bhopal)

CBCS SCHEME OF EXAMINATION- BACHELOR OF ARCHITECTURE WEF 2016

July 2015 Botch
A (11/12)

THIRD YEAR SIXTH SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted						Credit Allotted		Total credits
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work	Assignment/ Quiz	Theory	Practical	
1	AR601	Architectural Design - VI	100	20	10	50	100	10	3	3	6
2	AR602	Building Construction - V	50	20	10	50	50	10	2	2	4
3	AR603	Advanced Building Services	50	20	10	-	-	-	3	3	3
4	AR604	Specification, Estimating & Costing	50	20	10	-	20	10	2	1	3
5	AR605	Town Planning	50	20	10	-	20	10	2	1	3
6	AR606	Elective-II	50	20	10	-	30	10	2	1	3
		1. Vastu									
		2. Sustainable Architecture									
		3. Intelligent Buildings									
7	AR607	4. Housing	-	-	-	50	-	-	2	2	
		Working Drawing									
Total			350	120	60	150	270	50	14	10	24

THIRD YEAR SECOND SEMESTER

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	Assignment/ Quiz					
1.	ARG01	Architectural Design - VI	100	20	10	50	50	100	10	3	-	6	6
2.	ARG02	Building Construction - V	50	20	10	50	50	50	10	2	-	4	4
3.	ARG03	Advanced Building Services	50	20	10	-	-	-	-	2	1	-	3
4.	ARG04	Specification, Estimating & Costing	50	20	10	-	-	20	10	2	1	-	3
5.	ARG05	Town Planning	50	20	10	-	-	20	10	2	2	-	4
6.	ARG06	Elective-II 1. Vastu 2. Sustainable Architecture 3. Intelligent Buildings 4. Housing *	50	20	10	-	-	30	10	2	1	-	3
7.	ARG07	Working Drawing	-	-	-	50	50	50	-	1	-	4	3
			350	120	60	150	270	50	50	14	5	14	26

Elective-II - 1. Vastu 2. Sustainable Architecture 3. Intelligent Buildings, 4. Housing

Scheme and syllabus CBCS approved on -07/07/2017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

(An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidyalaya, Bhopal)

SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017(CBCS)

FOURTH YEAR FIRST SEMESTER

S.N o	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits			
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical /Studios				
			End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem					Studio Work/ Sessiona I	Assignme nt/ Quiz	
1.	AR701	Architectural Design - VII	-	50	10	100	200	4	-	6	7	4	3
2.	AR702	Advanced Building Construction - I	50	20	10	50	50	3	-	2	4	3	1
3.	AR703	Advanced Structure Design	50	20	10	-	-	2	1	-	3	3	-
4.	AR704	Project Management & Building Economics	50	20	10	-	-	2	2	-	4	2	-
5.	AR705	Elective-III 1. Conservation, 2. Disaster Management & Earthquake resistance Structures, 3. G.I.S and Remote Sensing	50	20	10	50	50	3	-	2	4	3	1
6.	AR706	Dissertation	-	-	-	50	50	3	-	2	4	-	4
			200	130	50	250	350	17	3	12	26	15	9

Elective-III - 1. Conservation, 2. Disaster Management & Earthquake resistance Structures, 3. G.I.S and Remote Sensing

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

(An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidyalaya, Bhopal)

SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

July 2017(CBCS)

FOURTH YEAR SECOND SEMESTER

S.N o	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits		
			Theory		Practical			Lectures (L)	Tutorials (T)	Practical/ Studios			
			End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem	Studio Work/ Sessional					Assignme nt/ Quiz	
1.	ARS01	Thesis	-	-	-	150	400	-	3	2	18	14	T F
2.	ARS02	Urban Design	50	20	10	50	50	10	3	-	2	5	6-14
3.	ARS03	Professional Practice	50	20	10	-	-	-	2	1	-	3	3
4.	ARS05	Elective-IV 1. Interior Design, 2. Product Design, 3. Film / Set design 4. Architectural Journalism	50	20	10	50	50	10	2	-	2	4	2-1
			150	60	30	250	500	10	10	3	22	26	8-10

Elective-IV - 1. Interior Design, 2. Product Design, 3. Film / Set design 4. Architectural Journalism

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

(An Autonomous Institute under P. J. C. Society, Prayagraj, Mahatma Jyoti Bapu Group)

SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE (B.Arch)

July 2021 (2021A)

FIFTH YEAR FIRST SEMESTER

S.N s	Subject Code	Subject Name	Maximum Marks Allowed						Teaching Hours per Week			Total Credits
			Theory			Practical			Lectures (L)	Tutorials (T)	Practical Sessions	
			End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem	Studio Work/ Sectional	Assignme nt/ Quiz				
1.	AA905	Training	-	-	-	300	200	-	-	-	20	

Dr. Anurag Kumar

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017(CBCS)

FIFTH YEAR SECOND SEMESTER

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	Assignment/ Quiz				
1.	AR1001	Training	-	-	-	200	250	-	-	18	-	18
2.	AR1002	General proficiency	-	-	-	50	-	-	-	2	-	2
			-	-	-	250	250	-	-	20	-	20

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

- Study of one book/ article about design and presentation of review in written/ verbal/ any other form of the above

Course Outcomes: Students will be able to:

- understand the application of visual grammar
- talk about basic design composition
- evaluate and appreciate the built environment

Note: The sessionals shall be in the form of drawings, and models along with report. The evaluation will be through review system presented before the Jury.

TEXT BOOKS:

1. V.S. PARMAR, "Design Fundamentals in Architecture", Somayya Publications Pvt. New Delhi 1973.
2. EDWARD D. MILLS, "Planning, The Architects Handbook", Butterworth, London 1905.
3. MAITLAND, GRAVES, "The Art of Colour in Design", McGraw Hill Book Co. 1951.
4. SCOTT, "Design Fundamentals".
5. G. BROND BENT, "Design in Architecture".

REFERENCE BOOKS:

1. FRANCIS D.K. CHING, "Form, Space and Order", Van Nostrand Reinhold Co. Canada.
2. FRANCIS D.K. CHING, "Architectural Graphics".

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(An Autonomous Institute under Rajiv Gandhi Prodyogiki Mahavidyalaya, Bhopal)
SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE VEF July 2017 (GRADING NEW)

FIRST YEAR FIRST SEMESTER

S.N o	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 Test	Mid Sem Test/ Assignm ent/ Quit	End Sem	Studio Work/ Seasonal					
02	Z00302	Architectural Materials	50	20	10	-	40	3	1	-	4

Aim: The subject has been designed to impart the knowledge about the traditional natural materials and the proprietary manufactured materials along with their characteristics, manufacturing process and appropriate use as building components and related specifications.

COURSE OUTCOME: the students will be able to evaluate, compare and select the techniques for finalising specific building materials for different types of buildings and analyze its influence on prevailing architectural styles.

Course Content:

1. Clay and clay products (bricks, tiles), stones.
2. Cement, lime, sand, aggregate mortar and concrete blocks.
3. Timber types, qualities and defects in timber seasoning etc. complete.
4. Metals-ferrous and non-ferrous, glass.
5. Special functional need and category of building materials abrasives, adhesives, asbestos, asphalt, bitumen, cork, electrical insulation, foam, gypsum, heat insulation materials, lubricants, rubber sheets, roof coverings, solder, sound absorbent materials, tar, turpentine etc.
6. Proprietary building materials- Paints, varnishes, distempers wall paper, floor coverings, tiles, vinyls, asbestos, fittings, laminating materials for interiors & exteriors polymers, plastics resins and advanced surface finishes for interior and exterior etc.
7. Processed materials- plywood, laminates, fiberboards, light weight boards, panels etc. & clay products.
8. Prefabricated and pre-stressed building component: roof slabs, wall units, beams, columns, lintels, shelves etc. of different types, their specification & technique of construction and use in architecture.
9. Low-cost construction techniques and materials, combinations in mud, terra - cotta, bamboo as plant classification, parts, geographical distribution, Anatomy of Bamboo, Properties, strength, processing, harvesting, working of bamboo tools - Treatment and preservation of Bamboo and uses of Bamboo, Termite protection, sewage protection, fire protection materials etc. of special need.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

10. Industrial, agricultural and mineral wastes and their utilization as building materials: Fly ash, blast furnace slag, calcium carbonate, lime kiln rejects, by-product, gypsum, red mud, throw-away packages, rice husk, saw dust, wooden chips, choir waste, wood wool, tailings etc. their application in components of different types of buildings.

Note: Sessional should be in the form of small reports, market surveys, seminars and notes on above mentioned topics. The works of CBRI, NBO, HUDCO and other related institutions be referred and discussed.

TEXT BOOKS:

1. S.C. RANGWALA, "Engineering Materials"
2. S.P. ARORA & BINDRA, "Building Construction"

REFERENCE BOOKS:

1. Advances in Building Materials and Construction, CBRI.
2. Specification Year Book

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FIRST YEAR FIRST SEMESTER

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
3.	210103	Graphics - I	100	20	10	50	50	3	-	3	6

AIM: The aim of the subject is to introduce the students about the fundamentals of visualization and preparation of architectural drawings.
COURSE OUTCOME: To introduce and familiarize students with drafting tools and accessories and provide basic knowledge and skill to draft a drawing manually. Developing drafting skills through different types of lines, their intensity and interpretation. Also understanding the scale of drawing, dimensioning, lettering techniques and layout of sheets. Familiarizing students to three dimensional drawings/objects and its application used to enhance and communicating design ideas.

Course Contents:

1. Understanding tools and techniques of drawing simple geometric objects.
2. Graphics basics: Hatching, Lettering, Dimensioning and Scale.
3. Free hand drawing: Techniques and principles of free hand drawing through sketching various elements of nature and manmade objects through various mediums like pencil, pen and ink and colour etc.
4. Graphic codes and symbols for various building elements, Architectural lettering.
5. Scales: Construction of architectural scales and their application to real objects and drawings.
6. Orthographic Projections: From simple point line to simple regular solids to complex solids or hollow objects /geometric objects.
7. Complex Projections: Interpenetration of solids, development of surfaces with or without sections and intersection of solids.
8. Angular Projections: Isometric, axonometric and oblique projections.

Note: The sessional is to be done in the form of drawing sheets and sketches on above topics.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

TEXT BOOKS:

1. N.D. BHATT, "Engineering Drawing"
2. NARAYANAN, "Engineering Drawing"
3. I.H. MORRIS, "Geometrical Drawing", Orient Longman

REFERENCE BOOKS:

1. Rendering with Pen and Ink by Robert W. Gill
2. Architectural Graphics by Francis D. K. Ching

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR FIRST SEMESTER

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				
4.	210104	Fundamental of Structural behavior	50	20	10	-	20	2	2	4

AIM: The aim of the subject is to introduce the students about the fundamentals of stability of any built structure and various factors of structure designing.

COURSE OUTCOME: The course would enable students to understand various principles of strength of materials and behavior of forces.

Course Content:

1. Statics of a particle, composition and resolution of forces, moment of a force, parallel forces, couples, general conditions of equilibrium.
2. Center of gravity and moment of inertia of composition and cut out sections, parallel and perpendicular axes theorem, stability of equilibrium.
3. Simple stresses and strains, direct stresses, compound stresses.
4. Shear force and bending moments for strained beams subjected to concentrated load and distributed loadings (Simply supported and cantilever only) support reactions.
5. Stress in beams: Direct, bending and shearing stress in beams.

Note: Sessional work should include design and analysis of simple elements as stated above with drawings.

TEXT BOOKS:

1. S.B. JUNNARKAR, "Applied Mechanics"
2. RAMAMURTHAM, "Applied Mechanics"
3. S.B. JUNNARKAR/H.J. SHAH, "Mechanics of Structure Vol.1"
4. DR. B.C. PUNAMIA, "Strength of Materials"

REFERENCE BOOKS:

IS Codes

1. IS 465: 2000

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

2. SP-163
3. SP-34

FIRST YEAR FIRST SEMESTER

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
5.	210105	History of Architecture-I	50	20	10	-	20	2	1	-	3

AIM: The course aims at understanding the influence of Geographical & climatic, cultural and political situation on Architecture in expressing philosophical and aesthetic concepts in built form.

COURSE OUTCOME: This course is studied in order to see how builders in the past solved their structural & functional problems.

This study of history gives the student a chance to study the structural basis of great styles, methods of admitting daylight, for planning and so on, as related to structure. Importance is also attached to the sociological background i.e. political, economic, religious, technical and philosophic ideas and ideals which lie behind all buildings.

COURSE CONTENT:

This will be studied with the help of selected samples of buildings under the various historical civilizations of Indian and Asia in general, in chronological order.

1. Pre historic civilization, Neolithic & Paleolithic
2. Indus Valley Civilization: culture and pattern of settlement. - Aryan civilization - theories and debates of origin- origins of early Hinduism - Vedic culture - Vedic village and rudimentary forms of bamboo and wooden construction - origins of Buddhism and Jainism
3. Egyptian :Temples & temple complexes - Cult Temple and Mortuary Temple o Mastaba - development and typical components
4. of Pyramids - Complex of Zoser, Pyramid of Cheops and Cephren, Standard mortuary complex layout of pyramids
5. Introduction to Mesopotamian civilizations, Urbanization in the Fertile Crescent - Sumerian, Babylonian, Assyrian and Persian culture - evolution of city-states and their character - law and writing - theocracy and architecture - evolution of the ziggurat - palaces.
6. Mayan Civilization: Ceremonial platforms, palaces, pyramids and temples

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

Note: Sessionals will be submitted in the form of sketches notes, audio-visuals and reports of site visit to some historical buildings etc. as per programme scheduled by the school per session, Visual & video aided in teaching techniques.

TEXT BOOKS:

1. SATISH GROVER, "The Architecture of Indian (Buddhist & Hindu)"
2. A VOL WANSEN, "Living Architecture (Indian)", Oxford & IBH London
3. Pier Luigi Nervi, General Editor, "History of World Architecture - Series"

REFERENCE BOOKS:

1. PERCY BROWN, "Indian Architecture (Buddhist & Hindu), Taraporewala & Sons, Bombay.
2. CHRISTOPHER TADGILL, "History of Architecture in India", Phaidon Press.
3. History Of Architecture by Sir Bannister Fletcher
4. The Story Of Architecture by Patrick Nuttgens
5. Space, Time And Architecture by Siegfried Gideon

Dr. P. S. J. J. J.

SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR FIRST SEMESTER

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				
6.	210106	English Language (Architecture Appreciation)	50	20	10	-	20	2	2	4

AIM: The course intends to build the required communication skills of the students having limited communicative abilities, so that they may communicate effectively in real-life situations

COURSE OUTCOME: This will help the students to equip themselves for better performance in all subjects that require verbal communication and written explanations

COURSE CONTENT: Understanding the basics of communication skills Learning Resources / References & Learning Strategy.

Ice-breaking Exercises, practicing accents, exercises on listening and spoken skill, and small exercises on writing skills.

Scope and Importance of communication, Listening, Reading & Writing. Group Discussions and Readings on Topics Related with architecture, settlement patterns, history of architecture etc. Discussions on recent Developments and Current Debates in Media.

Language and skills of communication

An Introduction to Linguistics, Properties of Language, Modern usages, English phonetic symbols/signs, Vocabulary. Common errors in grammar. Communication, Approaches, Elements, Types, Processes of communication, Communication Window, Management and Grapevine Communication. Verbal and Nonverbal Communication, Barriers to Communication. Negotiation and Conflict.

Application of linguistic ability

Listening: Factors affecting Listening, Improving Listening. Listening to topics of General Interest.

Speaking: Presentations, Demonstrations, Conversation, Telephonic Conversation, socializing, cultural events, debates, and speech.

Reading: Comprehension, stories, passages, etc.

Writing: Essentials of good writing, Précis Writing, Noting and drafting, Technical Descriptions of simple engineering objects and processes, Writing of definitions of Engineering terms, Objects, Processes and Principles, slogan writing comment, speech and advertising.

Official Writings:

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Letter Writing: Essentials of letter writing, Format of a letter, Letters of Applications, Enquiry, Complaint, Letters of calling quotations, placing tenders, orders, etc.
Note Making, Drafting, Email writing, Official Orders, Notices, Memorandum. Précis Writing.
Report Writing: Report writing, writing technical reports, observation report, Survey report, Report of trouble, Laboratory report, Project Report, Survey report on the subjects of engineering, etc.
Paragraph Writing and Technical Descriptions.

Reference Books: -

- Technical Communication --- By Meenakshi Raman, OUP.
- Understanding Human Communication --- By Ronald Alderman by OUP
- Effective Technical Communication --- Rizvi, TMH
- Communication Skills for Engineers --- Pearson Education.
- Effective Business communication --- Tata McGraw Hill
- Business Communication --- OUP, Tata McGraw.
- Practical English Grammar by Thomson Martinet --- Oxford University Press
- A Handbook of Language laboratory by Cambridge University Press.

Language Laboratory: The objective of the language lab is to expose students to a variety of listening and speaking drills. This would especially benefit students who are deficient in English and it also aims at confidence building for interviews and competitive examinations. The Lab is to cover following syllabus.

1. Communication lab.
 2. Listening skills.
 3. Speaking skills.
 4. Oral presentation.
- (A) Phonetic symbols, pronunciation.
(B). Conversation: telephonic, face to face, formal and informal situations

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR SECOND SEMESTER

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
1.	210201	Architectural Design - II	100	20	10	50	100	2	-	6	8

AIM: The aim of the subject is to introduce to the students the design fundamentals, design vocabulary and impact of order of form, space and color scheme on the human psychology.

COURSE OUTCOME: Student will be able to compose the architectural spaces in a design project and to communicate architectural drawings with the help of various mediums.

Course Content:

1. Introduction of Architectural design with an approach of functional understanding and analysis of problems with studies of space requirements for different furniture (objects), activities and circulation. Relationship between occupied and unoccupied spaces.
2. Anthropometric study and analysis in variety of spaces, Study of single units ,living area, sleeping area, cooking area, study area, toilet etc.
3. Design of small shelters and study of multi units involving max. 3 to 4 functional spaces natural and manmade objects of functional and aesthetic value. Aspects of area determination in conjunction with relevant building Bye Laws and area relationship.
4. Colour theories and colour schemes and its effect on the users.
5. Case studies for measured drawing of small buildings and furniture. Introduction to draw presentation drawings. Small views (isometric and perspective) of the studied buildings.
6. Study and design of small structures like ceremonial gates, temporary exhibition stalls, drinking water fountains, milk booths etc.
7. Minimum one time problem of 6 hrs duration is to be attempted in class other than regular design problems.

Note: The sessional will be in the form of drawings and models along with technical report for the design dealt with. The evaluation should be done in intermediate reviews consisting of internal / external experts. There should be regular site visits to the building type dealt in the studio problem for which audio visuals should be prepared.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

TEXT BOOKS:

1. Architectural Design by Jane Anderson
2. Elements Of Space Making by Yatin Pandya

REFERENCE BOOKS:

1. D.E. CHIRAIRA & CALLENDAR, "Times Saver Standard for Building Types".
2. National Building Code.
3. RUDOLF HERGE, "Nuferts Architects Data", Cross By Lockwood & Sons Ltd.
4. EDWARD D. MILLS, "Planning the Architects Hand Book".

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR SECOND SEMESTER

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				
2.	210202	Building Construction - I	50	20	10	50	2	A	6	

Aim: The aim of the subject is to introduce the students about execution of building components with their constructional details presentation of working drawing. Introduction to the subject and its impertinence to the field of architecture and description of various components of a small building envelop from foundation to roof.

COURSE OUTCOME: Student will be able to develop understanding about Excavation, complex foundations, Masonry, Plastering and various kinds of constructions techniques involved.

Course Content:

Foundation:

- Definition, functions and design factor
- Detail of simple stepped brick and stone foundation.

Excavation:

- Timbering to trenches,
- Tool, plants and equipments for excavation

Masonry:

- Types of bricks and stone and their uses
- Definitions and types of masonry
- Various types of Bonds and detailed study of English, Flemish, double Flemish and rat trap bond and use of these bonds in brick and stone walls of various thicknesses
- Details of right angle, tee and angular junction,
- Piers and quoins

Rubble Work:

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

- Random rubble, courses rubble & ashlar masonry, Composite Masonry

Opening:

- Different types of arches, lintels and sills in Bricks and stones

Miscellaneous:

- Plastering pointing, corbels,
- Damp Proof Courses & copings
- Introduction to different type of stairs case with their design factors
- Construction details of stone stairs

Note: There should be regular site visits to buildings under construction or constructed to explain the above topics. Use of audio-visuals should be stressed. The Sessional shall be in the form of handmade drawings and the continuous evaluation will be through review system presented before the Faculty and Studio In charge.

TEXT BOOKS:

1. DR. B.C. PUNAMIA: "Building Construction"
2. R. BERRY: "Construction of Buildings"
3. MITCHEL: "Advance Building Construction"

REFERENCE BOOKS:

1. W.B. MCKAY: "Building Construction Vol.1
2. R. CHUDLEY : Building Construction Handbook Vol. 1 to 4

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR SECOND SEMESTER

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	
3.	210203	Graphics - II	50	20	10	50	50	3	3	6

AIM: The aim of the subject is to introduce the students about the fundamentals of three dimensional visualization, realistic expression of ideas and presentation of architectural drawings. And introduce the students the computers as an analytical tool

COURSE OUTCOME: Students will be able to understand various architectural software and their use in designing, drafting of architectural drawings in two dimension forms and three dimensional forms for proper visualization and understanding and also for working and presentation drawings of architectural designs along with project documentation and management etc.

Course content:

PROJECTION & PERSPECTIVE:

1. Projection of Complex geometrical objects to understand Building Elements.
2. Introduction to basic terms, principles, types and techniques of perspective drawing: realistic expression of ideas.
3. Two point perspective of simple objects (drafted & free hand)
4. Presentation of interior and exterior views in one point perspective (drafted and free hand)

SCIOGRAPHY:

1. Introduction to basic principles of sciography and it's application to the field of architecture.
2. Sciography of two dimensional objects in plan and elevation.
3. Sciography of three dimensional objects in plan, elevation and views, (Isometric, Axonometric and Perspective)
4. Sciography of simple building elements.

Computer Aided Graphics

- Introduction to basic understanding of application software, such as Auto cad, Revit, Archicad, Rhino and other project management softwares.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

- Advance Computer Aided Architecture Drafting (in various projections).
 - Architecture or allied project presentation technique.
 - Graphical analysis of development project through computer.
 - 3-D modeling, animation and advance rendering techniques with the help of computers.
- Note:** The sessional will be in the form of drawings, sketches and computer aided graphics.

TEXT BOOKS:

1. S. MULLIK, "Perspective & Sciography", Allied Publishers Ltd.
2. Interior Perspective in Architectural Design Graphics.
3. SUBRAMANIAM, "Introduction to Computer Vol. 1 & 2, Tata McGraw Hill.
4. MANOHAR CHANDWANI & ABHAY JAIN & N.S. CHANDWANI, "Elements of Computer Science", Jain Brothers, Karol Bag, New Delhi.
5. CHARLES SIEGAL, "Teach Yourself " 'c' "BPB" New Delhi.

REFERENCE BOOKS:

1. ROBERT W. GILL, "Advance Perspective", Thames & Hudson, London.
2. BERNARD ALKINS, "Architectural Rendering", Walter, Foster, Art books.
3. ROBER W. GILL, "Basic Perspective, "Thames & Hudson, London 1974.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR SECOND SEMESTER

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
4.	210204	Analysis of Structures	50	20	10	-	10	2	1	-	3

AIM: The aim of the subject is to introduce the students about the fundamentals of stability of any built structure and various factors of structure designing. The objective of the course is to develop is the students a feel for structural principles and they relates to building design.

COURSE OUTCOME: At the end of the course, the student should be able to apply the concepts of action of forces on a body and should be able to apply the equilibrium concepts, moment distribution and analysis the stability of retaining walls

Course Content:

1. Fixed and continuous beams: Relation between free B.M. diagram fixed B.M. diagram, slope deflection, fixed beam subjected to couple, continuous beam, Clapeyron's theorem of three moments.
2. Moment distribution methods: fixed and continuous beams only.
3. Study of types of structures: load bearing framed, rigid jointed, pin jointed, determinate, indeterminate.
4. Loads of stresses: Dead load, live load, wind load, earth quake forces, soil and hydrostatic pressure, load combinations, factor of safety, permissible stresses, standard specification and codes of practice.
5. Analysis and stability of retaining walls: rectangular and trapezoidal only.

Note: Sessional work shall include assignments/tests on the above topics along with the drawings.

LIST OF TEXT AND REFERENCE BOOKS:

- C.S. REDDY, "Basic Structural Analysis", Tata McGraw Hill.
- S.B. JUNNARKAR, "Applied Mechanics", Charotar Publications Ananad.
- RAMAMURTHAM, "Applied Mechanics", Dhanpat Rai & Sons.
- Nash W.A., "Strength of Materials" – Schaums Series, McGraw Hill Book Company. 1989.
- Rajput R.K., "Strength of Materials", S. Chand & Company Ltd., New Delhi, 1996.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR SECOND SEMESTER

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	
5.	210205	History Of Architecture- II	50	20	10	-	20	2	1	-	3

Aim: The aim of the subject is to introduce the students about the glorious past of India and abroad to emphasis philosophy, design, material use and construction of famous historic buildings.

COURSE OUTCOME:

Course content : Introduction and Chronological outline of famous periods of Indian and western Architecture

Study of philosophy , design, material use and construction techniques of famous historic buildings with examples for following

BUDDHIST ARCHITECTURE : Evolution of Buddhism, Buddhist thought, art and culture - Hinayana and Mahayana Buddhism - interaction of Hellenic & Indian Ideas in Northern India - evolution of building typologies- the stupa, vihara and the chaitya hall - symbolism of the stupa - architectural production during Ashoka's rule Ashokan Pillar, Sarnath - rock cut caves at Barabar - Sanchi Stupa- rock cut architecture in Ajantaand Ellora - Karli - viharas at Nasik - Rani gumpha, Udaigiri - Takti Bahai, Gandhara.

EVOLUTION OF HINDU TEMPLE ARCHITECTURE: Hindu forms of worship – evolution of temple form - meaning, symbolism, ritual and social importance of temple - categories of temple - elements of temple architecture - early shrines of the Gupta and Chalukyan periods Tigawa temple - Ladh Khan and Durga temple, Aihole - Papanatha, Virupaksha temples, Pattadakal- Kailasanatha temple, Ellora.

TEMPLE ARCHITECTURE -NORTHERN INDIA : Temple architecture of Gujarat, Orissa, Madhyapradesh and Rajasthan - their salient features Lingaraja Temple, Bhuvaneswar - Sun temple, Konarak. - Somnatha temple, Gujarat, Surya kund, Modhera Khajuraho, Madhyapradesh - Dilwara temple, Mt. Abu

TEMPLE ARCHITECTURE - SOUTHERN INDIA: Brief history of South India - relation between Bhakti period and temple architecture - of templetowns - Dravidian Order - evolution and form of gopuram Rock cut productions under Pallavas: Shore temple, Mahabalipuram and Kailasanatha temple, Kanchipuram - Chola Architecture: Nartmalai, Brihadeeswara, Gangaikonda Cholapuram and Darasuram temples — temple gateways of Madurai and Chidambaram - temple towns: Madurai, Srirangam and Kanchipuram Hoysala architecture: Belur and Halebid.

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ISLAMIC ARCHITECTURE: Introduction to Islamic culture worldwide; early Islamic architecture in India beginnings under the slave kings (cir. A.D. 1200 to 1290), The Sayyid (1414-51) and the lodi (1451-1526) dynasties, Provincial styles (Bengal, Gujrat, Malwa, Deccan, Sasaram) Architectural features: Minars, minarets, towers and turrets, domes, The buildings of the Khalji dynasty, the Delhi or imperial style The Tughlaq dynasty (1320 to 1413), Lodhi, Sayyid

Architectural Treatises and Writings: al-Bīrūnī (d. 1048) - Kitāb fi Tahqīq ma li'l-Hind (Researches on India), Fazl, Abu'l (1877). Akbarnamah (Persian), Vol. 1. Asiatic Society, Calcutta. (Online book), Fazl, Abu'l (1879). Akbarnamah (Persian), Vol. 2. Asiatic Society, Calcutta, Akbar nama by Abul Fazl, Travel in the Mughal empire, Travels of Pietro Della Valle in India

Note : Sessional will be submitted in the form of sketches , notes, audio-visuals and hand written reports of site visits to some historical buildings etc. as per programme scheduled by the school per session.

TEXT BOOKS:

1. SATISH GROVER, "The Architecture of Indian (Buddhist & Hindu)", Vikas Publishing Housing Pvt. Ltd. New Delhi.
2. SATISH GROVER, "The Architecture of Indian (Islamic)", Vikas Publishing Housing Pvt. Ltd. New Delhi.
3. A VOL WANSEN, "Living Architecture (Indian)", Oxford & IBH London.

REFERENCE BOOKS:

1. PERCY BROWN, "Indian Architecture (Buddhist & Hindu), Taraporewala & Sons, Bombay.
2. PERCY BROWN, "Indian Architecture (Islamic), Taraporewala & Sons, Bombay.
3. CHRISTOPHER TADGILL, "History of Architecture in India", Phaidon Press.
4. Islamic Architecture, Form, Function and Meaning by Robert Hillenbrand
5. The Hindu Temple by George Michell,
6. Architecture Of the Islamic World by George Michell
7. Architecture Of World , India by Henry Sterlin
8. Architecture Of World, India (Islamic) by Henry

SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR SECOND SEMESTER

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				
6.	210206	Theory Of Design	50	20	10	20	2	1	-	3

AIM: The courses in Theory of Architecture aim to evolve a conceptual frame work for intelligent appreciation of architecture and to develop a vocabulary for discussing design ideas. To introduce factors that lending meaning to architecture, expression, communication.

COURSE OUTCOME: This course will inculcate among the students the understanding of various aspects of traditions, culture and socio economic developments which influence the thinking process and designing of physical forms.

Course Contents:

1. Studies of folk art and crafts, indigenous architectural studies, influence of tradition, culture and socio-economic developments on art and architecture. Introduction to inquiries initiated by various Western and Indian philosophers.
2. Understanding of determinants of physical form such as concepts of space, structure, organization, symbolism, mass, surface scale, order, proportion, rhythm, datum, axis, etc. in relation to place, time and society with due consideration for perceptual qualities as affected by colors, light conditions, vision angle etc.
3. Experiencing architecture :Understanding architecture in totality in terms of the various aspects studied in this course firsthand experience, analysis and interpretation of building
4. Communication and interpretations in architecture. The eloquence, aptness and style in architecture, their judgment and design.
5. Development in world architecture, environmental design and technology with reference to trend setting works of architects, designers, ecologists, engineers etc.
6. Design parameters, principles, process, methods and program formulation.Design, matrices and system integration. Process of design synthesis.

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FIRST YEAR FIRST SEMESTER

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				
7.	210107	Workshop - I	-	-	-	20	50	-	3	3

AIM: The aim of the subject is to introduce to the students to the various tools used in carpentry, metal work, masonry painting etc. and get a reasonable skill in handling the materials and tools thereof.

COURSE OUTCOME: Students will be able to use different kinds of tools and machinery for production of design models

Course Content: Introduction to different hand tools and their process. Rules, safely and precautions

Visual Art – General characteristics of visual art/Fundamentals of visual art: Space, Form, size, Shape, Line, Color, Tone values, Perspective, Design and aesthetic organization of Visual elements in art object (Composition). The use of two and three dimensions in art in visual art. Tactile quality in art. Environment and art. Perceptual and conceptual aspects in art.

Carpentry - Introduction to the carpentry tools, processes, joints and wood working machines. Preparation of various carpentry joints, fixing of plywood, Blackboards, commercial boards and their application in furniture.

- Foundry –Introduction, type of patterns, pattern making, preparation of moulds and moulding equipment details
- Fabrication –Introduction to welding equipments, processes and its applications.
- Painting and polishing- Classification of paints, varnishes ingredients of paints, painting methods-brush, spray, hot spray etc.

Note: The sessionals will be in the form of different job works and sheet works in each trade and models prepared by using the above methods. Preparation of art work in various model and methods.

LIST OF TEXT AND REFERENCE BOOKS:

1. The complete book of drawing techniques, by Eugene Felder & Emmett Elvin
2. Paper Scissor Glue by Catherine Norman, Ryland Peters & Small
3. Color on Metal by Tim Mc Creight & Nicole Bsullak
4. A.K. HAJARA & CHOUDHARY. "Workshop Technology
- 5.

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THIRD YEAR FIRST SEMESTER

S.N o	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits	
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/S tudios		
			End Sem Test	Mid Sem Test	Assignm ent/ Quiz	End Sem Sessional					Studio Work/ Sessional
1.	AR501	Architectural Design - V	100	20	10	50	100	10	3	6	6

AIM: Design of imaginative forms to develop the creativity in terms of built form. Design with application of principles and theory of architectural design and philosophies of contemporary architects. The attempt is towards developing ones own language and philosophy of architecture to guide towards exploring alternative building forms for different activities which help in understanding the relationship of structure and possibilities in building forms.

Course Content:

Design problems should include problems of simple and complex nature i.e. temple, gathering places, exhibition pavilion, clubs, cafe, community hall, museums, art gallery, pavilion, sport complexes, nursing homes.

Emphasis shall be given more on three dimensional studies to develop an understanding for man and space relationship and also relevant building bye-laws. There should be variety of problems in the studio work with changing focus for each problem from theory to construction techniques (local) and site layouts, covering organization and detailing of open spaces with the aim to learn to work with practical limitations.

One group exercise of making measurement drawings of a building for documentation.

Minimum one time problem is to be attempted in class, of 18 hrs duration.

Note: The sessionals will be in the form of drawings and models along with technical report for the design dealt with. The evaluation should be done in intermediate review consisting of internal / external experts. There should be regular site visits to the building types dealt in the studio problems of which audio-visual should be prepared. The range of design problems shall include projects of progressively increasing complexity. The various aspects of the design problem shall be dealt with lectures, group discussions and library research so as to provide the necessary philosophical and attitudinal background to a rational design approach.

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LIST OF TEXT AND REFERENCE BOOKS:

1. "Planning by E. & O.E". Liffe book Ltd., London.
2. D.E. CHIRAIRA & CALLENDAR, "Times Saver Standard for Building Types".
3. RUDOLF HERGE, "Nuferts Architects Data", Cross By Lockwood & Sons Ltd.
4. EDWARD D. MILLS, "Planning the Architects Hand Book".
5. National Building Code.

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July 2017(CBCS)

S.No	Subject Code	Subject Name	THIRD YEAR						Total credits			
			FIRST SEMESTER			SECOND SEMESTER						
			Maximum Marks Allotted									
			Theory		Practical		Lectures (L)	Tutorials (T)		Practical/ Studios		
2.	AR502	Building Construction - IV	End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional	Assignment/ Quiz	3	-	4	5
			50	20	10	50	50	10				

Aim: The aim of the subject is to introduce the students about Execution of building component with their constructional details and presentation of working drawing.

Course Content:

R.C.C. Foundation

- Definition, functions, and design factors.
- Details of different types of RCC foundations, strip, isolated, continuous and raft foundation

Joinery works

- Shoring, scaffolding, underpinning.
- Formwork for R. C. C. construction.

R.C.C. works

- Definitions, functions and design factors.
- R.C.C. column, beams, slabs, lintel, chajja, staircase, canopy, coffer slab & pergola.

- R.C.C. retaining wall & construction of basement. Expansion joints.

- Pre stressed R.C. C construction.

- Study of low cost construction systems.

Masonry:

Study of various types of Pre-cast concrete blocks their extensive uses in building construction.

Flooring

- P.C.C., terrazzo, stone (marble, Kota, granite, etc) Ceramic tiles & P.V.C. Flooring.

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- Pre-cast paving.
- R.M.C. (Ready- Mix Concrete)
 - Introduction of R.M.C
 - R.M.C. Properties, techniques

Note: There should be regular site visits to buildings under construction or constructed to explain the above topics. Use of audio-visuals should be stressed. The Sessional shall be in the form of handmade drawings, and the evaluation will be through review system presented before the Faculty and Studio in charge.

LIST OF TEXT AND REFERENCE BOOKS:

1. W.B. MCKAY, "Building Construction Vol.1 to V, Orient Longman.
2. R. CHUDLEY, "Building Construction Handbook Vol. 1 to 4 "British Library Cataloguing in Publication Data 1990.
3. DR. B.C. PUNAMIA, "Building Construction", A. Sauraby & Co. Pvt. Ltd.
4. R. BERRY, "Construction of Buildings". The English Language Book Society London 1976.
5. MITCHEL, " Advance Building Construction", Allied Publishers Pvt. Ltd.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017(CBCS)

THIRD YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits	
			Theory		Practical			Lectures (L)	Tutorials (T)	Practical/5 studios		
			End Sem	Mid Sem Test	Assignment/Quiz	End Sem	Studio Work/Sessional					Assignment/Quiz
3.	ARS03	Building Services-II (Electrical & Mechanical)	50	20	10	10	20	10	2	1	-	3

Aim: The aim of the subject is to introduce the students about the aspects of electrical wiring and air conditioning in a building, learning about various equipment and fittings available in the market and preparing basic design lay out for various services and typical details.

Course Content:

SECTION-A: ELECTRICAL

1. Fundamentals of electricity, Principles of wiring.
2. Fitting and accessories used in electrical installation of buildings including water proof and spark proof installation. Schematic diagrams of installation for different building types, lighting conductors, earthing, distribution & calculation of loads.
3. Brief study of electrical appliances, Sub-station, location and space requirement, relevant electricity board rules for various types of buildings.
4. Illumination: Laws of illumination. Direct, indirect and semi direct lighting, reflectors, decorative lighting. Flood lighting and use artificial lighting as an element in architectural schemes particularly in exhibition, cinemas, theaters, concert, concerts halls and stadiums.
5. Rules and layout for telephone wiring & connection with EPBX.

SECTION - B: MECHANICAL

1. The fundamentals of psychometric and heat transfer. Physiological effects of air conditioning.
2. Air conditioning methods, systems, types and equipment to maintain the atmosphere at required temperature, humidity and cleanliness.
3. A.C duct designing, detailing and layout. (No calculations required)
4. Lifts, moving walkways and escalators, layout of lifts and or escalators in buildings(Multi storey to high rise).
5. Apparatus and system of alarms, firefighting equipments, fire fighting bye-laws governing various types of public buildings. Fire escape staircases.

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Notes: Sessionals will be in the form of notes, home assignments, drawings/layout exercises showing the electrical and mechanical services details and case studies if required.

LIST OF TEXT AND REFERENCE BOOKS:

ELECTRICAL SERVICES

1. "Specification year Book"
2. B. L. THAREJA "Text book of Electrical Technology", S. Chand and Co.
3. UPPAL, "Text Book of Electrical Technology", Khanna Publishers.
4. "National Building Code".
5. FRANK R. DAGOSTINO, "Mechanical and Electrical systems in construction and Arch"
Reston Pub. Virginia U.S.A.

MECHANICAL SERVICES

1. "Specification year Book".
2. S.C. ARORA AND A. DOMKUNDWAR, "Refrigeration and Air conditioning", Dhanpat Rai & Sons.
3. HERBERT. W. STANFORD, "Heating Ventilation and A.C. systems", Prentice Hall.
4. "National Building Code".

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THIRD YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory		Practical			Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem	Studio Work/ Sessional				
4.	AR504	Disaster Management	50	20	10	-	20	10	2	-	4

Aim: The objective is to develop an understanding of disaster and its management at pre and post disaster conditions, knowledge gained through the study of history of various types of disaster and their management. It is seen as a course that addresses issues of disaster and their management.

Course content:

- Types of disaster, meanings and related definitions.
- Causes and effects of natural hazards.
- Disaster profile of India.
- Disaster preparedness and response and rehabilitation.
- Roles and responsibilities of different agencies.

Note: Sessional will be in the form of report on the above topics and prepare a report for disaster management for a given hypothetical / real site/ building.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017(CBCS)

THIRD YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory			Practical		Lectures (L)	Tutorials (T)	Practical/Studios	
			End Sem	Mid Sem Test	Assignment/Quiz	End Sem	Studio Work/Sessional				
5.	AR505	Ecology & Environment	50	20	10	-	20	10	2	2	3

AIM: To create awareness for the preservation and protection of the environment, in the planning and construction of building & development projects.

COURSE OUTCOME: After successful completion of this course, student should be able to reflect a general awareness for the preservation and protection of the environment, in the planning and construction of their building / development projects.

COURSE CONTENTS:

Introduction, Structure and Function: Introduction to ecology, its meaning and growing importance in daily life. Basic terms used in ecology and their meanings. Fundamental concepts of ecology. Ecology – Environment relationship. Concept of spaceship as earth. Structure and function of eco- system. Major biomes of the world. Bio-geo-chemical cycles: Energy flows in eco-system. Species diversity, dominance, natural selection, habitat, niche, evolution etc. Eco-system equilibrium.

Importance of micro organisms. Succession and community development limiting factors and other concepts. Ecological cybernetics

Relationship with Nature: Man's relationship with nature in the past: Food-collecting, hunting, fishing, farming and other developmental stages in human civilization. Man's relationship with nature in the present: Industrial activities, urbanization, de-forestation, mining and similar incursions on nature for technological progress. Environmental impacts of these activities. The ecological crisis. Relevant case studies from abroad and India

Importance of Ecology: Relevance and growing importance of ecology in a highly urbanized and technological world with reference to dwindling resources, increasing demands and advancing technology. Adaptation of life-styles, and adoption of alternate technologies to harmonize with the natural environment. Discussion on alternatives available. Guiding environmental principles

Ecological applications to Architecture and Planning: Ecological applications to Architecture and Planning. Preserving and improving the human settlement in harmony with nature. Conservation of natural resource for improving the quality of life on earth and attempting to ensure its continuity for the future of

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humanity. Eco cities, eco-communities and eco buildings: Archeology. Designing settlements and other man-made eco-systems. Ecological and environmental cities for sustainable future.

LIST OF TEXT AND REFERENCE BOOKS:

1. Fundamentals of Ecology by E.P. Odum
2. The Ecology of Man: An Ecosystem Approach by Robert Leo Smith
3. Introduction to Ecology by Kurmundi
4. Review Our Dying Planet by Sarala Devi
5. Ecological Crisis: Reading for Survival by G. A. Love & R.M. Love
6. Environmental Science : The Way the World Works by B.J. Mebol
7. Modern Concepts of Ecology by H.D. Kumar

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THIRD YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/Studios	
			End Sem	Mid Sem Test	Assignment/Quiz	End Sem				
6.	AR506	Elective-I 1. Graphic Design 2. Animation 3. Design Thinking	-	-	-	50	2	1	-	3

1. Graphic Design

OBJECTIVES:

To familiarize the student with basic principles and fundamentals in visual art and basic design.

To develop basic skills using tools and theory used in traditional hand skills and computer.

To introduce terminology necessary to communicate concepts and theory in art and design. To create reflective and computer based projects using Adobe Illustrator.

Course Description:

A study of two-dimensional (2-D) design with emphasis on the visual communication design process. Topics include basic terminology and graphic design principles. Introduction to the fundamentals of design that lead to the discovery and comprehension of the visual language. Form, balance, structure, rhythm, and harmony are studied in black and white and in color. Various media will be used. Foundation laid for advanced courses in design.

Objectives:

To familiarize the student with basic principles and fundamentals in visual art and basic design.

To develop basic skills using tools and theory used in traditional hand skills and computer.

To introduce terminology necessary to communicate concepts and theory in art and design.

To create reflective and computer based projects using Adobe Illustrator.

This is not an Adobe Illustrator class. The application Illustrator is used to support your basic design projects only.

TEXTBOOK: GRAPHIC DESIGN BASICS EIGHTH EDITION by David A. Lauer/ Stephen Pentak

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2. Animation

Course Description

Examination of concepts, characters, and storyboards for basic animation production. Emphasis on creating movement and expression utilizing traditional or electronically generated image sequences. An introduction to traditional animation; course includes design, storyboarding, stop-motion and character animation. Gives students a working knowledge of animation techniques necessary to design animated sequences. Laboratory fee.

Recommended Texts

The following are some books about drawing, animation, and filmmaking you may want to consider adding to your personal library.

Cartoon Animation by Preston Blair Chuck Reducks by Chuck Jones

Disney's Illusion of Life by Frank Thomas and Ollie Johnston

3. Design thinking:

Design thinking is perceived as a crucial means of fostering creativity and innovation when employed as a problem-solving Design solutions invariably lead to new design problems. Design thinking includes tools for critical assessments of design failures as well as successes.

Course Description:

The design process, visual analysis, design theories, and the socio-cultural implications of design. Students investigate the interactions between humans and their natural, social, and designed environments where purposeful design helps determine the quality of those interactions. Students will learn how design outcomes, whether successes or failures, shape and are shaped by socio/cultural and historical factors. Students of design thinking will learn to critically assess the processes, outcomes and effects of design engagement. During the course, students will have opportunities to test and explore the concepts of design thinking through small-group, hands-on participation in design projects, specifically created to reinforce course content.

Course Objectives:

By the end of the semester, students will be able to:

- Develop an understanding of the interactions and interdependencies between humans and the designed environment.
- Understand that, in addition to the creation of innovative objects and places, design thinking can be applied to the development of new processes, services, interactions, and collaborations.
- Explain design theories and processes that guide and direct design thinking.
- Recognize the interdisciplinary practice of various design professions and the value of design thinking as a means of innovative problem solving across disciplines.

Student Learning Outcomes:

1. Students will learn how designers identify, define and solve problems.

Learning Outcome: Students can identify, define, and solve design-related problems.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017(CBCS)

S.No	Subject Code	Subject Name	THIRD YEAR						FIRST SEMESTER			Total credits	
			Maximum Marks Allotted						Lectures (L)	Tutorials (T)	Practical/S studios		
			Theory			Practical							
7.	AR507	NASA/ Group work	End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem	Studio Work/ Sessional	Assignm ent/ Quiz	100	-	-	4	2

Students will be evaluated on the basis of participation and performance in nasa activity as well as departmental activities.

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THIRD YEAR SECOND SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits	
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios		
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem					Studio Work/ Sessional
1.	AR601	Architectural Design – VI	100	20	10	50	100	10	3	6	6

AIM: This program gives special emphasis on role of technology in architecture. The design projects to be dealt in the studio should respond to the importance of structure and services including acoustical treatments.

Course Content:

- The range of design problems shall include projects of progressively increasing complexity.
- Exercises related to public buildings i.e. Commercial centre, hospital, auditorium, cinema, sports complex & educational buildings on sloping/ flat sites.
- Study and incorporation of building bye-laws should be complete in this Sem.
- Simultaneously, stress should be given on the interior treatment of small and large spaces.
- Freedom in design is to be given with preliminary introduction of importance and role of bye laws in building design.

Minimum one time problem of 18 hrs. duration is to be attempted in class, in addition to the major design problems.

Note: The sessionals will be in the form of drawings and models along with technical report for the design dealt with. The evaluation should be done in intermediate review consisting of internal / external experts. There should be regular site visits to the building types dealt in the studio problems of which audio-visual should be prepared. The various aspects of the design problem shall be dealt with lectures, group discussions and library research so as to provide the necessary philosophical and attitudinal background to a rational design approach.

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LIST OF TEXT AND REFERENCE BOOKS:

1. "Planning by E. & O.E". Liffé book Ltd., London.
2. D.E. CHIRAIRA & CALLENDAR, "Times Saver Standard for Building Types".
3. RUDOLF HERGE, "Nuferts Architects Data", Cross By Lockwood & Sons Ltd.
4. EDWARD D. MILLS, "Planning the Architects Hand Book".
5. National Building Code.

Handwritten signatures and initials: A large diagonal line, followed by a signature, a circular stamp, and the initials 'Ndm'.

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S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
2.	AR602	Building Construction - V	50	20	10	50	10	2	4	4

Aim: The aim of the subject is to introduce the students about Execution of building component with their constructional details and presentation of working drawing.

Course content:

Special Doors & Windows

- Sliding, folding, sliding and folding doors, revolving doors.
- Rolling shutters, collapsible doors, iron main gate.
- Bay windows, skylights.

Finishes:

- Partitions and paneling (timber, glass, PVC)
- Cladding - interior & exterior
- Jamb casing, skirting, moldings, architraves & pelmet

Services

- Waterproofing of basement, construction of pools.
- Fire places and flues.
- Heat and sound insulation.
- Fire safety Construction techniques.

Note:

There should be regular site visits to buildings under construction or constructed to explain the above topics. Use of audio-visuals should be stressed. The Sessional shall be in the form of handmade drawings and the evaluation will be through review system presented before the Faculty and

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Studio in charge.

LIST OF TEXT AND REFERENCE BOOKS:

1. W.B. MCKAY, "Building Construction Vol.1 to V, Orient Longman.
2. R. CHUDLEY: Building Construction Handbook Vol. 1 to 4 "British Library Cataloguing in Publication Data 1990.
3. DR. B.C. PUNAMIA, "Building Construction", A. Sauraby & Co. Pvt. Ltd.
4. R. BERRY, "Construction of Buildings": The English Language Book Society London 1976.
5. MITCHEL, "Advance Building Construction", Allied Publishers Pvt. Ltd.

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S.N	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
3.	AR603	Advanced Building Services	50	20	10	-	2	1	-	3

Aim: The aim of the course is to introduce the students about the aspects of acoustics and security systems in a building.

Course content:

SECTION - A

Acoustics:

- Definition of sound. Fundamental characteristics of sound.
- Behavior of sound in enclosed spaces in general and few enclosed functional spaces in particular without involving much of mathematical complexity. Need to study acoustics.
- Development of this science through different periods. Pioneers and their works.
- Properties of sound, its origin propagation and sensation. Behavior of sound with respect to various surfaces, openings and in an enclosed space.
- Study of various sound absorbing materials, single and in combination of various frequencies of sound, panel absorbers, porous materials and cavity resonators.
- Reverberation time, Sabine's formula. Criteria for acoustics environment for reverberation in spaces.
- Sound application systems. Constructional and planning measures for good acoustical design.
- Acoustical defects and remedies. Sound application systems. Case studies for the above aspects.
- Noise and its on man. Physiological and psychological principles of noise control including acoustic lent insulation for various domestic services and industrial fitting and constructions. Structure borne and air borne noise, their effects and control.

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SECTION – B

Security Systems:

- Types of security systems and their working.
- Apparatus and system of alarms.
- Firefighting equipments, fire fighting bye-laws governing various types of public buildings, fire escape, fire safety in high rise buildings.

Note: Sessional shall be prepared in the form of notes and calculations, drawings etc. as per above topics.

LIST OF TEXT AND REFERENCE BOOKS:

1. R.G.EDKIE, "Architectural Acoustics & illumination", EKWEERA PRAKASHAN, NAGPUR - 12
2. SIRASKAR, "Acoustics in Building Design"
3. S.OMEN & B. J. SMITH, "Acoustics & Noise Control"
4. T.S.S - Design data.
5. Otto Koeingsberger, "Manual of Tropical Climate", Orient longman.
6. E. J. RICHARDSON, "Acoustics for Architecture".
7. J.E. MOORE, "Design for good acoustics".
8. VERN O KNUDSEN, CYRIL M.HARRIS " , Architectural Acoustics " , John Wiley & Sons.

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			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
4.	AR604	Specification, Estimating & Costing	50	20	10	20	10	2	1	3

AIM: Art of writing specifications of materials along with emphasis on the quality of materials & proper sequence of construction work should be brought out. The students shall be exposed to the various methods of calculating the quantities of various materials / items used in the buildings. This subject will give them an understanding and insight the role of material, construction and cost together for budgeting the project cost.

Course Contents:

SPECIFICATIONS OF MATERIALS:

1. Importance of specifications in the building activities, method of writing correct order and sequence of use of materials, use of Indian Standard Specifications and P.W.D. specifications.
2. Primary consideration for selection of materials for various applications. Specifications of basic materials required in residential buildings, such as bricks, stones, concrete, RCC, plastering and various finishes, roofing material timber work, flooring materials, glazing, metals such as steel, brass, aluminum etc.

SPECIFICATIONS OF WORKS:

1. Specifications of works for a residential building of load bearing type and or RCC/framed type.
2. Specifications of works of construction of steel and RCC structures, ceiling and partitions, paneling, insulation and water proofing.
3. Specifications for services such as drainage, water supply, electrical installations.

B) Estimating & Costing :

1. Introduction to quantity surveying, methods of preparing estimates, data required for framing an estimate, types of estimates.

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2. Mensuration, standard mode of measurements, schedule of rates commercial abbreviations. Methods and procedure of taking off abstractions, working up and billing. Examples and exercises in taking in all items from excavation to painting including R.C.C. and steel work.
3. Rate analysis, cost of materials and labour for various works, detailed rate analysis of important items of construction work. Measurement of work for interim and final certificates of payments to contractors.
4. General terms: Administrative approval technical sanction, competent authority, deposit works, issue rates, payment on accounts, suspense accounts, imprest, indent of stores, muster roll, measurement book, materials site account, stock account, establishment charge etc.
5. Method and contents of technical report for obtaining technical/financial sanction.

Note: Sessionals are to be prepared in the form of exercises and small reports on above mentioned topics.
The sessional work will include notes, tests, and home assignments particularly about proprietary materials along with manufacturer's specification.

LIST OF TEXT AND REFERENCE BOOKS:

1. "Bombay P.W.D. Specification 1962.
2. Specification year book.
3. P.W.D. Hand book.
4. B. N. DUTTA, "Estimating and costing in civil Engineering", U.B.S. Pub.
5. M. Chakraborti, "Estimating and costing in Civil Engineering", "Bhaktivedanta Book Trust, Sreemayapur.
6. RANGWALA, "Estimating & Costing", Charotar Pub. house.
7. NAMAVATI, "Professional Practice", Lakhani Book Depot.
8. C.P.W.D. Hand book.

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THIRD YEAR SECOND SEMESTER

S.N o	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem				
5.	AR605	Town Planning	50	20	10	20	2	2	4	

Aim: The objective of the course is to investigate urban networks and processes. This course requires taking up an area level study and proceed to formulate design guidelines on the issues.

Course content:

- Basic components of urban areas and regions.
- Role of urban & regional planning at national level, metro level concepts. Basic planning, settlements, theories, models etc.
- Socio – cultural and land use planning, general principles, survey techniques, utopian thoughts, models for planning and their relevance in Indian context.
- Planning norms and development norms for urban and regional approaches, techniques of development for existing areas and renewal schemes, conservation and development.
- Transportation modes, planning and development survey techniques etc.
- Review of regional plans.

Note: Sessional will include the report on case studies based on data collection, surveys and other empirical evidences and its presentation in the form of seminars.

LIST OF TEXT AND REFERENCE BOOKS:

1. V.K. BHEDASGAONKAR, " Handbook of Town Planning", Amar Mudranalaya.
2. G.K.HIRASKAR, "Fundamentals of Town Planning", Dhanpt Rai & Sons.
3. PATRICK ABERCROMBIE, "Town and Country Planning", Oxford univ. Press.

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4. KEEBLE, "Principles and Practice of Town and Country Planning".
5. S.C. RANGWALA, "Town Planning", Charotar Publishing House.
6. BANDYOPADHYAY, ABIR, "A Text Book of Town Planning", New Central Book Agency, Calcutta.

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- d. Effective Buildings (1992-1997)
- 2) Study of Concepts of Building Management (facility management), Effective Space Management, Business management and the various models of Building Intelligence.
- 3) Technology Evolution and the IT market place: Present technological context, Exploration of user IT systems, IT demands on building and services, Building Control systems, study of development of Computer Integrated Building from single function systems to integrated solutions.
- 4) Key issues for Intelligent Buildings: Multiple activity settings, Generic analysis of space utilization, Models for shared space use. The development of briefing process including design activity and building element life-cycles, the match between organizational requirements and building technologies, A brief study related to Site issues, Shell issues, Skin issues, Building services and technology issues.
- 5) Managing the Building: Study and importance of facility management planning & operation techniques.
- 6) Intelligent Design & Construction: Client expectations, use of IT for effective communication of architectural ideas to clients, locating people and information, introduction to building efficiency studies with respect to life cycle costs.

NOTE: There will be study assignments given to students on various Units.

LIST OF TEXT AND REFERENCE BOOKS: A424 – ELECTIVE – I (INTELLEGENT BUILDINGS)

- 1. Payne, F. William, "Strategies for energy efficient Plants and intelligent buildings" Fairmont Press, USA, Distributor Prentice Hall India, New Delhi.

HOUSING-

Housing as a basic need, housing as an integral part of urban & rural development, housing problem and statistics, programme based policies. Qualitative and quantitative demands of housing, housing estimates. Housing survey techniques and standards, sources of data and information etc. Housing cooperative and financing agencies. Objectives and general principles of cooperatives, self-help housing, financing agencies and their functions etc. Introduction to methods and approaches to housing design. Study analysis and design of housing schemes.

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S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/Study	
			End Sem	Mid Sem Test	Assignment/Quiz	End Sem				
6.	AR606	Elective-II 1.. Sustainable Architecture 2. Intelligent Buildings 3. Housing	50	20	10	30	2	1	3	

SUSTAINABLE ARCHITECTURE:

- 1) Introduction to the ideas, issues and concepts of sustainable Architecture, global environment and the built environment, principles of environmentally and ecologically supportive architecture
- 2) Study of sustainable architecture, use of energy, materials, health and global environment as related to the construction and operation of buildings
- 3) Sustainable and conservation practices -water conservation, sewerage treatment, solid waste treatment, economics and management
- 4) Low energy design, hybrid systems, modelling and simulation of energy systems, integration of PV and wind systems in the building,
- 5) wind solar and other non conventional energy systems, solar thermal applications for heating and cooling, electricity generation in buildings
- 6) Case studies on specific contemporary sustainable architecture.
- 7) Green Specification parameters, carbon credits.
- 8) Introduction to ECBC, GRIHA, LEEDS, etc., simulation techniques and their applications.

NOTE : The Sessional will be oriented towards live case studies and modelling

INTELLIGENT BUILDINGS:

- 1) Introduction & Origins of the Intelligent Building Concept:
 - a. Definition and characteristics of Intelligent Buildings, A brief history of the Development of I.B. Concept through recent times highlighting.
 - b. Automated buildings (1981-1985)
 - c. Responsive buildings (1986-1991)

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S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
7.	AR607	Working Drawing	-	-	-	50	50	1	4	3

AIM: The aim of this subject is to understand the importance of working drawings, the methodologies, etc. for executing the drawing. This also requires standard mode of presentation of drawings with respect to Building Bye laws.

Course Content:

1. Introduction to various building components and precise purpose of set of working drawings. Study of each drawing with reference to specification & schedules of structure, services i.e. electrical, water supply, sanitation, air conditioning and communication.
2. Preparations of check list as guide for list of working drawings. Study of building bye-laws for various construction details & fire protection. Method of representing various contents & specific information in working drawings.
3. Preparation of municipal drawings and importance of working drawing as a legal document and tender document.
4. Preparation of municipal drawings and working drawing as a legal and tender document and submission drawing.
5. One set of working drawing of students own previous / current design.

Note: Sessional shall be in the form of full set of working drawing and design details of given building plan. The sessional marks will be based upon the portfolio submitted and internal viva. Studio programme integrated with A-221. Production of a set of detailed working drawings.

LIST OF TEXT AND REFERENCE BOOKS:

1. "Graphic standards".
2. "Time saver standards".
3. FRED A STITT, "Architects detail library", Van Nostrand Reinhold.
4. Working Details – by Boney

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017(CBCS)

FOURTH YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical / Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
1.	AR701	Architectural Design - VII	50	10	100	200	4	6	7	

Aim: The aims of the course is to emphasize and evolve the methodology for architectural design with reference to the previous knowledge of functional aesthetics as well as present and future scenario of urban and rural development, their problems and prospects.

Course content:

- Design with application of principles and theory of urban design, urban and regional planning aspects and philosophies of contemporary architects.
- The attempt is towards developing ones own language and philosophy of architect on guide towards exploring alternative building forms for different activities which help in understanding the relationship of structure and possibilities in building forms.
- Design of cost effective, sustainable structures for various economic and social groups to solve problem of efficient housing in urban India, post disaster rehabilitation & earth quake resistant structures, etc
- Emphasis on consideration of advanced construction materials and techniques with RCC framed structure, Steel structure for large span buildings, and use of lightweight prefabricated panels and other etc
- Details of services like sanitary, water supply, electrical and mechanical, acoustics, fire fighting, parking etc
- Detailed Site planning of the scheme with the details of landscaping and site agglomeration
- Design under the framework of existing local zoning regulations and other relevant Building codes.

Design problems:

- Design of large housing schemes and neighborhood planning etc with emphasis on above parameters
- Design of multistoried commercial complex, specialized market, five star hotels, motels, shopping malls, multiplexes, etc
- Design of universities, institutional campus, multistoried office buildings, town planning schemes, public buildings, Computer centers, IT Parks, and other infrastructure

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- Design of conference halls, science museums, sports complex etc
- Design of specialized hospitals/ college campus and other medical facilities

Design approach:

The literature survey & data collection is necessary. There should be regular site visits to buildings dealt in studio problems. Documentation should be done with the help of photographs, slides, video etc.
There should be minimum one time problem of 24 hrs. Duration apart from min. two regular design problems in the studio

Note: The sessionals will be in the form of drawings and models along with technical report for the design dealt with. The evaluation should be done in intermediate review consisting of internal and external experts. There should be regular site visits to the building types dealt in the studio problems of which audio-visual should be prepared.

LIST OF TEXT AND REFERENCE BOOKS:

1. "Planning by E. & O.E". Liffe book Ltd., London.
2. D.E. CHIRAIRA & CALLENDAR, "Times Saver Standard for Building Types".
3. RUDOLF HERGE, "Nuferts Architects Data", Cross By Lockwood & Sons Ltd.
4. EDWARD D. MILLS, "Planning the Architects Hand Book".
5. National Building Code.

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			Theory		Practical		Lectures (L)	Tutorials (T)	Practical / Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
2.	AR702	Advanced Building Construction - I	50	20	10	50	10	3	2	4

Aim: The aim of the subject is to introduce the students about Execution of building component with their constructional details and presentation of working drawing.

Course content:

Aluminium:-

- Study of aluminium sections and their utility.
- Aluminium doors, windows, fix glazing, partitions, false ceiling and suspended floors for services etc.
- Curtain walls, glass block construction.
- Design details of different types of counters for various shops, banks, post offices, jewelers, general merchandise, bar counters etc. Show cases, shop fronts, canopies, built in & knock down furniture.
- Partitions & screens.
- Sound proof construction including various types of materials and construction details. Various interior and exterior surface treatments such as cladding, lining, rendering etc.

Study:-

- Study of advanced constructional technologies.

Note: i) There should be regular site visits to buildings under construction or constructed to explain the above topics. Use of audio-visuals should be stressed.

ii) Minimum 8 sheets shall be prepared out of which two may be in sketch form (scaled).




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LIST OF TEXT AND REFERENCE BOOKS:

1. BOYNE, "Architecture working details".
2. W.B. MACKAY, "B. Construction. Vol.III/IV", Orient Longman.
3. MITCHELL, "Advanced Buld. construction", Allied Publishers Pvt. Ltd.
4. P.N. KHANNA, "Handbook of Civil Construction", Engineering Pub. New Delhi.
5. R.BERRY, "Construction of Buildings", The English language book society London-1976.
6. Catalogues of various manufacturers of Aluminium sections
7. JUGGARD & DRURY- Building Construction.

Note: There should be regular site visits to buildings under construction or constructed to explain the above topics. Use of audio-visuals should be stressed. The Sessional shall be in the form of handmade drawings, and the evaluation will be through review system presented before the Faculty and Studio in charge.

Handwritten signatures and initials:
Rudhram A. S. J. M.

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FOURTH YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical /Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem Sessional				
3.	AR703	Advanced Structure Design	50	20	10	-	2	1	-	3

AIM: The aim of the subject is to introduce the students about the fundamentals of stability of Modern structures in R. C. C. and various factors of R. C. C. structure designing.

Course Content:

- (1) Design of Flat Slab
- (2) Design of continuous and isolated footings
- (3) Design of combined footing :- types of combined footing, design of combined footing (rectangular and trapezoidal only)
- (4) Appropriate methods for an analysis for frames by portal method, cantilever method (horizontal forces only)
- (5) Pre stressed concrete:- pre stress and pre stressing methods, type and classification of pre stressing, losses of pre stressed
- (6) Specific constructional considerations for earthquake resistance structures, coastal areas.
- (7) Conceptual structural systems for high rise buildings such as verendel trusses, shear wall etc.
- (8) Domes, shells, vaults, arches (all types) in masonry, R.C.C., timber.
- (9) Space frames, geodesic domes, Large span roofing, special areas, Gymnasium, Airports and Stadiums.
- (10) Modern construction systems such as lift slab, folded plates, tensile structures etc.

NOTE: i) I.S. code 456-2000, SP -16 is permitted in examination.

ii) Sessional work should include the analysis and design of simple elements along with the drawings using limit state method only for units from 1 to 3 and for rest only an idea along with sketches shall be taught to the students.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

LIST OF TEXT AND REFERENCE BOOKS:

1. SALVADORI, "Structures in Architecture".
2. SALVADORI, "Structural Design in Architecture".
3. ROBERT, E. FISCHER, "New Structure", McGraw Hill Co.
4. WOLFGANG SCHUELLER, "The design of building Structures".

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FOURTH YEAR FIRST SEMESTER

S.N o	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical /Studios	
			End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem Sessional				
4.	AR704	Project Management & Building Economics	50	20	10	-	2	2	4	

AIM: This course deals with the entire gamut of activities concerned, with the implementation process of building works subsequent to the preparation of the construction schedule. The sequence shall begin with the framing of work priorities and progressively lead to concepts of scheduling, construction management and project economics.

COURSE OUTCOME: The student will be to understand and prepare work priorities and concepts of scheduling, construction management and project planning and building economics.

Course Contents:

SECTION-A: PROJECT MANAGEMENT:

- Introduction: Introduction to project management concepts, objectives, goals and different aspects of management, traditional management systems, Gantt's approach, bar charts, project programming, time estimate etc.
- Project programming, resource balancing, phasing of activities, programme scheduling, project control, reviewing, updating and monitoring, modern management concepts.
- Project assessment and project cost, job size, divisions of responsibilities, liaison with owners and their representatives, feasibility study, project report, construction financing facilities etc.
- Construction Management: Conditions of contract, their applications, quality and quantity controls, time and cash contract recording, checking and certifying with coordination of all building activities.
- Project Monitoring: C.P.M., P.E.R.T. & other uni-dimensional techniques for project planning, scheduling and control.



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SECTION-A: BUILDING ECONOMICS

1. Introduction: Broad features of Indian economy, economic significance, features in development plans, Macroeconomic concepts & their application, Money & Banking functions, factors of production such as land, labour, building industries and money and management etc.
2. Land Economics: Land as a limited resource, demand for land development and need for its conservation, public policies for land utilization and land development, theories of land values, land acts & problems in land acquisition & land development programme etc.
3. Building Economics: Building efficiency and cost reduction through planning, design of building components, use of new materials and Innovative construction etc. rent & other building acts, economics of high rise buildings etc.
- Optimization of cost or affordable cost through various measures has become an important issue since prices escalate fast. The course aims to make aware about the issues/methods involved.

LIST OF TEXT AND REFERENCE BOOKS:

1. VASANT DESAI, "Project Management", Himalaya Pub. House.
 2. S. CHOUDHARY, "Project Management", Tata McGraw Hill.
 3. P.K. JOY, "Handbook of Construction Management", Macmillan.
 4. PRASANNA CHANDRA, "Projects, Planning, Analysis, Selection, Implementation & Review", McGraw Hill.
 5. DENNIS LOCK, "Project Management", Coles Pub. Co.
- BUILDING ECONOMICS**
1. P. A. STONE, "Building Economy", Pergamon 1976.
 2. I. H. SEELEY, "Building Economics", Mcmillan 1977.
 3. P.T. GHAN, "Engineering Economics", Pune Vidyarthi Griha Prakashan.
 4. MISHRA, "Indian Economy", Himalaya Pub. House.

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FOURTH YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical / Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
5.	AR705	Elective-III 1. Conservation, 2. Disaster Management & Earthquake resistance Structures, 3. G.I.S and Remote Sensing	50	20	10	50	3	-	2	4

DISASTER MANAGEMENT & EARTHQUAKE RESISTANT STRUCTURES

Aim: The objective is to develop an understanding of disaster and its management at pre and post disaster conditions, knowledge gained through the study of history of various types of disaster and their management. It is seen as a course that addresses issues of disaster and their management.

Course content:

- 1) Types of disaster, meanings and related definitions.
- 2) Causes and effects of natural hazards.
- 3) Disaster profile of India.
- 4) Disaster preparedness and response and rehabilitation.
- 5) Roles and responsibilities of different agencies.

Note: Sessional will be in the form of report on the above topics and prepare a report for disaster management for a given hypothetical / real site/ building.

Architectural Conservation

This course intends to develop an understanding in architectural conservation. Meaning of architectural conservation, need and degrees of conservation; History of conservation in India and West, conservation charters. Role of archeological survey of India in conservation of India's cultural

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heritage listing and documentation, its importance and methods. Urban conservation, methodologies to be adopted for conservation management.
Case studies in conservation related to adoptive reuse, building in context, preservation etc.

GIS & REMOTE SENSING

- 1) Basic remote sensing, platform, sensors, and introduction to sensors, basic principal & methods of photo interpretation and techniques of data collection through satellite data. Classification techniques using satellite data
- 2) Digital image processing, enhancement techniques in urban information extraction
- 3) Aerial photography as a tool for collection of data and preparation of maps, its application in planning and preparation for a project, orientation concept and methodology transformation and adjustment techniques.
- 4) Experiments in lab, Instruction for making overlays
- 5) Computation of photo scale
- 6) Orientation of a stereo pair under a mirror stereoscope
- 7) Recognition on aerial photograph of objects indicated on ground photographs
- 8) Detection of defined objects, Description and identification of objects
- 9) Use of auxiliary features for object identification
- 10) Systematic scanning of a photograph, and object identification
- 11) Identification of land use with a given classification
- 12) Monitoring urban changes, Mosaic preparation
- 13) Base map preparation & elementary data analysis using satellite data
- 14) Experiments in lab, Instruction for making overlays
- 15) Classification preparation
- 16) Interpretation & delineation of various land use on satellite data products
- 17) GIS techniques and their application in planning field

NOTE: Sessional work shall consist of term paper, small project formulation using satellite data and analytical report preparation through GIS, seminars

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FOURTH YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits	
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical / Studios		
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem					Studio Work/ Sessional
6.	AR706	Dissertation	-	-	-	50	50	3	-	2	4

AIM: Objective of subject Dissertation is to enlighten students on the fundamentals of Research methods before attempting final year Project Thesis.

Basics of research to be understood by the students are:

- Basic research principles and research methods.
- Report writing skills

Dissertation will be part of Design Project (A 511) to be further carried and completed in IX semester.

Course Content:

- First phase of dissertation allows students to identify the broad area / field of Architecture of their interest in which they may intend to do the research. This is to be done by studying and reproducing the brief of technical papers in the form of report review.

- Second phase allows the students to do the study of sample example of research already done by choosing the specific aspect / area relevant to broader field they have selected in first phase. This exercise involves the writing of report / review of book / journal dedicated to that specific aspect or area. This review writing is aimed to understand the method of collecting data (survey methods), analysis of data (statistics and mathematical formulas), drawing inferences and conclusion as attempted by the author of the book.

- Third phase is the writing of detailed dissertation report. Students are expected to choose their own topic of research by referring the area / field already identified in other two phases.

NOTE: Sessionals will be submitted in the form of review reports and Dissertation report.

LIST OF TEXT AND REFERENCE BOOKS:

Instruction Manuals on report writing.

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S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits	
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical / Studios		
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem					Studio Work/ Sessional
1.	AR801	Thesis	-	-	-	150	400	3	2	18	14

AIM: All the four years of learning architectural design and allied subjects culminate in design thesis project to motivate a student in investigative attitude individual methodology, thus to train in handling projects independently. The Architectural Thesis is the culmination of the development of the student's knowledge, attitudes and skills over the course of studies in architecture. It is an occasion for exercising conscious choices in the field, based on the student's personal abilities and inclinations, and for testing out his commitment.

Course Content:

Thesis Project:

Each student will select a subject of an architectural interest in consultation with the committee appointed by the Head / Principal of the Dept. / Institution. The subject will have to be approved at the beginning of the eighth semester. The evolution of the thesis project will be continuous and the student will have to give at least three seminars / submissions before the final submission. The thesis project shall be submitted in the form of bound report, drawings, models etc. in a manner as stipulated in THESIS MANUAL on the date prescribed by the Department. The student, in consultation with the faculty, is expected to demonstrate through an imaginative approach, his expertise in effecting positive changes in our built environment.

Note: Architecture work programme and Architecture thesis manual shall be supplied by the department.

LIST OF TEXT AND REFERENCE BOOKS:

1. "Planning by E. & O.E". Uliffe book Ltd., London.
2. D.E. CHIRAIRA & CALLENDAR, "Times Saver Standard for Building Types".

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3. RUDOLF HERGE, "Nuferts Architects Data", Cross By Lockwood & Sons Ltd.
4. EDWARD D. MILLS, "Planning the Architects Hand Book".
5. National Building Code.
6. Thesis manual: SOA Publications (for private circulation only)
7. Instruction Manuals on report writing.
8. Relevant Books as per topic

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FOURTH YEAR SECOND SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical / Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
2.	AR802	Urban Design	50	20	10	50	10	3	2	4

Aim: The objective is to develop an understanding of Urban Design through their evolution in history and it being an integral part of the architecture at bigger level. It is seen as a course that addresses issues of urban environment and sustainability. The studio will also look at the further development of the first term architectural design project in urban peripheries context to understand the overall impact of architecture.

COURSE OUTCOME: The student will be able to understand and design projects at urban level and understand the overall impact of architecture.

Course content:

- Definition of Urban Design, scope of urban design in Indian context and its integration with urban planning.
- Historical development and approaches to Urban Design, spatial design, classical, functional, ornamental etc. space orders.
- Urban form and its elements, visual order of forms, sequence, scale, visual space dynamics. Various surveys needed to document visual aspects of environments.
- Urban design concepts of Doxiadis, Sarinen, Kelvin Linch, Le Corbusier and others.
- Urban structure and design rational inter- relationship economic activities, public organization, communication systems. Urban conservation and land use structure.
- Urban renewal and Gentrification.
- Review and designing of urban renewal and redevelopment projects for old and new towns.

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Note: Sessional will be in the form of drawings and reports on the study on any area, identification of the problem areas and proposals in the form of drawings for the same.

LIST OF TEXT AND REFERENCE BOOKS:

1. GALLION "Urban Pattern", CBS Publishers & Distributors.
2. S. PAUL D., "Urban Design and Architecture".
3. PETER KATZ, "The new Urbanism", McGraw Hill.
4. ZURICH GOLDERTAL, "Space Time and Architecture", Printed in U.S.A.
5. GORDEN CULLEN, "Town Scape".
6. BACON, EDMUND N., "Design of Cities", Thames.

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Scheme and syllabus (CBCS) approved: on 07/07/2017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

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FOURTH YEAR SECOND SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical / Studios	
			End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem				
3.	AR803	Professional Practice	50	20	10	.	2	2	4	

AIM: The objective of this subject is to equip the students with sufficient knowledge of professional practice, code of conduct and ethics. Along with the students shall be well equipped with the knowledge of valuation and arbitration.

COURSE OUTCOME: The students will gain knowledge of professional practice, code of conduct and ethics, valuation and arbitration.

Course Contents:

1. Introduction to Architectural Profession, Role of Professional Bodies, the Architects Registration Act, 1972.
2. The duties, liabilities and relationships of client, contractor and other technicians. The code of professional conducts and conditions of engagement of Architects. Scale of remuneration for Architectural services and mode of payments.
3. Types of tenders, tendering process, Execution of contract, Problems in operation of contract.
4. Architectural competitions, office organisation, administration & management, documentation & maintenance of accounts, Arbitration, Esqueiment and laws relating works, Dilapidation and waste.
5. Office organization and administration, nature of partnership, registration and dissolution of firms. Statutory obligations, office managements, filing of documents and drawings, accounts and audits, staff personals, their salaries, incentives etc.
1. Valuation: Importance of valuation for rental, income/wealth tax, selling/ purchasing. Values, sinking fund, capitalised cost, year purchase, methods of depreciation and valuation tables; Mortgage/ lease, fixation of rent of private/ Govt., residential, commercial buildings etc. Different methods of valuation. Valuation reports, duties and responsibilities as registered government valuer
2. Arbitration: Role and qualities of an arbitrator. Arbitration act-1940 with amendment all date Arbitration with reference to competitions, valuations, contracts, land disputes and legal implications.

Note: The students shall prepare the presentation on these topics and present in ppt.

Signature of the Head of Institution

Scheme and syllabus 2017 approved on 30/05/2017

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LIST OF TEXT AND REFERENCE BOOKS:

1. R. H. NAMAVATI, "Professional Practice", Lakhani Book Depot.
2. H. H. TURNER, "Architectural practice and Procedure", B.T. Batsford Ltd.
3. I.I.A Publications (Articles of Agreement, scale of professional charges, competitions).
4. Council of Architecture- Handbook

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Scheme and syllabus CBCS approved on -07/07/2017

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FOURTH YEAR SECOND SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical / Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem				
4.	AR804	Elective-IV 1. Interior Design, 2. Product Design, 3. Film / Set design 4. Architectural Journalism	50	20	10	50	2	1	2	4

Course Content:

INTERIOR DESIGN

1. Understanding the need for design of interiors. Effect of build spaces/interior spaces on human psyche. Historical background of interior design and international perspective.
2. Interior space character, classification categories and quality. Elements of interior space. The built environment, the living interiors in today's context.
3. Space, form, colour, abstract, spatial expression. The base line, the overhead plane, the verticals, the intermediates. Visual aspects, visual control, illusions. Visual art appreciation: A brief look of Major Art Movements that have affected design.
4. Interior climate, orientation of interior space with respect to outdoor climatic forces. Outdoor climate study, study of micro climate. Spatial layout for best comfort in doors with respect to natural climate. Air movement, natural illumination, natural heating/cooling, artificial interior environment-artificial illumination, artificial climate, air conditioning etc.
5. Elements of interior design: A study of the latest available, materials, furniture/fittings, past, present and future and international perspective. Water and plants in interior design. Drainage, plant species, plant care etc. Sound modulation in interior spaces. Practical examples and exercise for all the above.

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Note: Design problems in interior design to bring out the originality, innovativeness, and the best of imagination from the students, preparation of scrap books.

LIST OF TEXT AND REFERENCE BOOKS: AR-424 ELECTIVE – I (INTERIOR DESIGN)

- T.S.S. for Interior design.
- AHMED A. KASUR, "Interior Design", Iqura Pub.
- JOHN CULLEN, "The lighting handbook" Pelham Books.

Product Design: Course Topics

- Product Design Cycle
- Identification of Customer Needs and Market Research Essentials
- Concept Generation
- Technology and Market Assessment
- Introduction to Industrial Design and Human Factors
- Estimation of Manufacturing Costs
- Introduction to Business Plans
- Introduction to Intellectual Property and the Patent Process

Reference Textbooks:

- Product Design and Development by Karl T. Ulrich and Steven D. Eppinger, 5th Edition 2011
- The Art of the Start by Guy Kawasaki, 2004

Film/Set Design

- 1) Introduction and literature case study of various types of 'stage'.
- 2) Introduction to different forms of dramatics and the requirement of set design suitable to various forms eg. Historical, mythological, social plays to experimental theatre.
- 3) Live case study of different performing art theaters and its presentation of various aspects.
- 4) Lecture and interaction with same stage artiste.
- 5) Thought process and design process of set design.
- 6) Types of sets, box stage, revolving or sliding stage and symbolic stage craft.
- 7) Designing, Execution, erection and dismantling, transformational sets, materials etc.

ARCHITECTURAL JOURNALISM

- 1) Journalism in general

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FIRST YEAR SECOND SEMESTER

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	
7.	210207	Workshop-II	-	-	-	20	50	-	3	3

AIM: The aim of the subject is to explore the artistic qualities and capabilities of each student with the help of practical. Enhancement of creativity and visualization power by model making and other artistic works.

COURSE OUTCOME: Students will be able to use different kinds of tools and machinery for production of design models. The subject will be taught in congruence with subjects like Design and Graphics. Assignments for the subject will be linked to design exercises to achieve higher level of learning and understanding the practical application of the same.

Course Content:

- Workshop:** Use of clay, Plaster of Paris, metal scrap, metal sheets, jute fiber etc. for study of forms through models.
- Development of surfaces of simple and composite forms using paper, thermocole, wire, Wax, acrylic, sheets and similar materials.
 - Introduction to metallic sections, joinery tools, joinery processes and working with them.
 - Models in appropriate materials for understanding of joinery in wooden construction.
 - Bonds in masonry based on the programme of building construction to make the various forms of masonry structures.
 - Mixing of concrete, preparation of various objects
 - Introduction to photography, use of camera, technique in architectural photography.

Note: Sessionals shall include exercises in block and detail model making of students own design or copy design, made of paper, thermocole, wires, plaster of Paris, cardboards, Acrylic sheets and other soft materials.

LIST OF TEXT AND REFERENCE BOOKS:

1. The complete book of drawing techniques, by Eugene Felder & Emmett Elvin
2. Paper Scissor Glue by Catherine Norman, Ryland Peters & Small
3. Color on Metal by Tim Mc Creight & Nicole Bsullak
4. A.K. HAJARA & CHOUDHARY. "Workshop Technology

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

FIFTH YEAR FIRST SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted					Teaching Hours per Week			Total credits
			Theory		Practical			Lectures (L)	Tutorials (T)	Practical / Studios	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work/ Sessional				
1.	AR901	Training	-	-	-	300	200	-	-	-	20

- 1) The students' work will be evaluated through monthly progress report / diary in the end of each month under continuous Assessment.
- 2) Monthly progress report/diary, duly signed by the Architect, shall be submitted to the department, by the student up to 7th date of each month positively, online or in hard copy by post.
- 3) The students' performance during the training shall be evaluated by a Jury at the end of the semester.
- 4) The constitution of jury shall be - two external examiners, one Academician & one professional and two internal examiners, at least one shall be Professor or Head and training co-coordinator.
- 5) Minimum duration of training for One Semester will be of 14 weeks.

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Note: The structure of the courses consists of set of lectures and prescribed reading followed by group discussions and seminars. The sessional should be in the form of drawings technical report writing and presented in the seminar along with the audio visuals which will be based on buildings identified during regular site visits.

TEXT BOOKS:

1. BAHGA, "Modern Architecture in India", Galgotia Pub.
2. Yatin Pandya, "Elements of Space making", Mapin 2007
1. Bryan Lawson, "How Designers Think", Architectural Press Ltd" London, 1980.
2. FRANCIS D.K. CHING, "Form, space and order", Van Nostrand Reinhold Co. Canada.

REFERENCE BOOKS:

3. CHRISTOPHER ALEXANDER, "Pattern Language", Oxford University Press.
4. Leland M. Roth, "Understanding Architecture", Craftsman House.
5. CHRISTOPHER ALEXANDER, "Pattern Language", Oxford University Press.
6. FRANCIS D.K. CHING, "Form, space & order", Van Nostrand Reinhold Co. Canada.
7. JOHN RUSKIN, "Seven Lamps of Architecture".
8. MAITLAND GRAVES, "The Art of color and Design", McGraw Hill book Co. INC.

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF

FIFTH YEAR SECOND SEMESTER

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				
2.	AR1002	General proficiency	-	-	-	50	-	-	-	2	

The student shall prepare a report showing their performance in curricular and extracurricular activities during the course of studies from I Semester to X semester in chronological order and present the same before Examiners for evaluation.
(Extra curricular activities, NASA participation, paper writing and presentation, conferences, seminars and workshops attended, participation in competition, Awards if any, participation in Institute level activities, Social & cultural activities)

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017(CBCS)

- 2) Theories of journalism
- 3) Techniques and processes
- 4) Contemporary Architectural journalism
- 5) Digital Journalism
- 6) Architecture, Arts and Journalism / Media
- 7) Cinematography
- 8) Profile writing (Corporate to Individual)
- 9) Critical appraisal of Technical, Literature, Visual and Media.
- 10) Photo Journalism.

Note: There will be study assignments given to students on the above mentioned course.

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005

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SCHEME OF EXAMINATION - **M.A.T.E.R OF URBAN PLANNING**

WEF July 2017

FIRST YEAR FIRST SEMESTER

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/ Sessiona	
1.	670101	PLANNING HISTORY AND THEORY	70	20	10	-	-	3	1	-	4	100
2.	670102	SOCIO-ECONOMIC BASIS FOR PLANNING	70	20	10	-	-	3	1	-	4	100
3.	670103	PLANNING TECHNIQUES	70	20	10	-	-	3	1	-	4	100
4.	670104	INFRASTRUCTURE AND TRANSPORTATION PLANNING	70	20	10	-	-	3	1	-	4	100
5.	670105	HOUSING AND ENVIRONMENTAL PLANNING	70	20	10	-	-	3	1	-	4	100
6.	670106	STUDIO COURSE-I STUDIO ASSIGNMENTS/FILM APPRECIATION/ LITERATURE REVIEW/ AREA APPLICATION	-	-	-	90	60	-	-	6	6	150
7.	670107	STUDIO COURSE-II SITE PLANNING/ CITY DEVELOPMENT PLAN	-	-	-	90	60	-	-	6	6	150
			350	100	50	180	120	15	5	12	32	800

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SCHEME OF EXAMINATION - **MASTER OF URBAN PLANNING**

WEF July 2017

FIRST YEAR SECOND SEMESTER

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.	670201	CITY AND METROPOLITAN	70	20	10	-	-	3	1	-	4	100
2.	670202	URBAN HERITAGE CONSERVATION	70	20	10	-	-	3	1	-	4	100
3.	670203	URBAN DEVELOPMENT FINANCE & PROJECT PLANNING	70	20	10	-	-	3	1	-	4	100
4.	670204	LEGAL ISSUES & PROFESSIONAL	70	20	10	-	-	3	1	-	4	100
5.	670205	RESEARCH METHODOLOGY	70	20	10	-	-	3	1	-	4	100
6.	670206	STUDIO-I	-	-	-	90	60	-	-	6	6	150
7.	670207	STUDIO-II	-	-	-	90	60	-	-	6	6	150
			350	120	60	180	120	15	5	12	32	800

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SCHEME OF EXAMINATION - **MASTER OF URBAN PLANNING**

WEF July 2017

SECOND YEAR THIRD SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits		
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios			
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem					Studio Work/ Sessional	
1.	670301	ELECTIVE -I	70	20	10	-	-	3	1	-	4	100
2.	670302	ELECTIVE- II	70	20	10	-	-	3	1	-	4	100
3.	670303	SEMINAR	-	-	-	-	100	-	-	6	6	100
4.	670304	DISSERTATION	-	-	-	120	80	-	-	6	6	200
			140	40	20	120	180	6	2	12	20	500

Elective I- 1. Inclusive Urban Planning , 2. Planning for Tourism

Elective II- 1. Environment, Development and Disaster Management, 2. Energy, Climate change and Urban Development

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SCHEME OF EXAMINATION - **MASTER OF URBAN PLANNING**

WEF July 2017

SECOND YEAR FOURTH SEMESTER

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

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SCHEME OF EXAMINATION - ~~MA~~STER OF URBAN PLANNING

WEF July 2017

670101-PLANNING HISTORY AND THEORY

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 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 OF EXAMINATION - **MASTER OF URBAN PLANNING**

WEF July 2017

670102- SOCIO-ECONOMIC BASIS FOR PLANNING

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.

Community and Settlements

Social problems of slums and squatters 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 neighbourhood 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.

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.

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SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

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670103- PLANNING TECHNIQUES

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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SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

WEF July 2017

Tupen.

Seminar - 2

Syllabus - Dr

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30 Ques - Seminar

Exercs - 2

OW Urban

Part Exam

Display

670104- INFRASTRUCTURE AND TRANSPORT PLANNING

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;

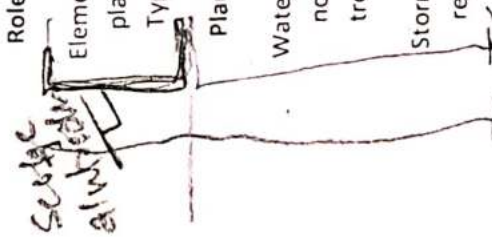
Planning and Management of Municipal Wastes, Power and Fire

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 fire fighting, 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 OF EXAMINATION - MASTER OF URBAN PLANNING

WEF July 2017

670105- HOUSING AND ENVIRONMENTAL PLANNING

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 Neighbourhoods

Approaches to neighbourhood living in traditional and contemporary societies, elements of neighbourhood structure, Planning and design criteria for modern neighbourhoods, 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 neighbourhood planning.

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SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

WEF July 2017

670106- STUDIO I

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 (individual 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 a particular 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.

Appreciation / Analysis of ward level data.

Perception of areas in terms of legal / illegal / authorized / unauthorized, Slums, UrbanAesthetics.

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 OF EXAMINATION - ~~MA~~STER OF URBAN PLANNING

670107- STUDIO II

I 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.

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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Scheme and syllabus approved on 07/072017

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SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

WEF July 2017

M. URBAN PLANNING – II SEMESTER

670201 - CITY AND METROPOLITAN PLANNING

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.

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.

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SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

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670202- URBAN HERITAGE CONSERVATION

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; Imagibility 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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SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

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670203- URBAN DEVELOPMENT FINANCE & PROJECT PLANNING

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.

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,

Scheme and syllabus approved on 07/072017



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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.

670204- LEGAL ISSUES & PROFESSIONAL PRACTICE

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.

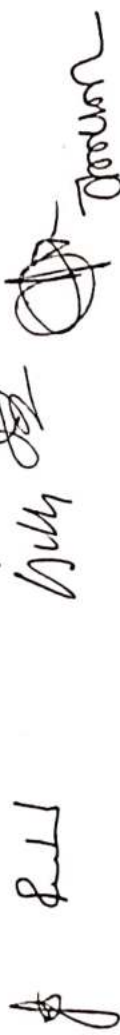
Theoretical frameworks, the role of institutions in the policy process, and the motivation of urban policy actors. Steps in Policy Analysis: How are policies made, who influences the policy agenda and what issues affect policy's 'success' and 'failure'?, what can we learn from how different nations approach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



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SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

WEF July 2017

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.

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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SCHEME OF EXAMINATION - ~~MA~~TER OF URBAN PLANNING

WEF July 2017

670205- RESEARCH METHODOLOGY

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.

670206- STUDIO- I

Management and Governance Plans

- I. The focus of the studio is on management and governance aspects (in line with the other core and elective courses offered in the semester). The exercise pertains to metropolitan cities and mega cities and ranges from preparing management plans and projects related to various sectors pertaining to infrastructure, disaster risk, riverfront development etc. Students are also required to identify and formulate projects, work out the appraisals and do the feasibility, viability and implementation mechanisms of the projects. Students work on a case study town/city and have to visit the field for collection of data and interaction with city officials and stakeholders. Although planning continues to be an important aspect of the exercise, students are also exposed to project identification, formulation, and appraisal, financing mechanisms and institutional framework. Students draw from the theoretical knowledge provided in the core and elective subjects related to management, finance and governance offered in the semester and translate them in their studio exercise. The culmination of the exercise is in the form of group presentations and studio report.

670207- STUDIO- II

I. Geo-Informatics Laboratory Training

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.

Scheme and syllabus approved on 07/072017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005
 (An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidyalaya, Bhopal)
SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

WEF July 2016

FIRST YEAR FIRST SEMESTER

S.N o	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	Assign ment/ Quiz	End Sem	Studio Work/ Sessiona					
1.	MUP-101	PLANNING HISTORY AND THEORY	70	20	10	-	-	3	1	-	4	100
2.	MUP-102	SOCIO-ECONOMIC BASIS FOR PLANNING	70	20	10	-	-	3	1	-	4	100
3.	MUP-103	PLANNING TECHNIQUES	70	20	10	-	-	3	1	-	4	100
4.	MUP-104	INFRASTRUCTURE AND TRANSPORTATION PLANNING	70	20	10	-	-	3	1	-	4	100
5.	MUP-105	HOUSING AND ENVIRONMENTAL PLANNING	70	20	10	-	-	3	1	-	4	100
6.	MUP-106	STUDIO COURSE-I STUDIO ASSIGNMENTS/FILM APPRECIATION/ LITERATURE REVIEW/ AREA APPLICATION	-	-	-	90	60	-	-	6	6	150
7.	MUP-107	STUDIO COURSE-II SITE PLANNING/ CITY DEVELOPMENT PLAN	-	-	-	90	60	-	-	6	6	150
			350	100	50	180	120	15	5	12	32	800

f *has* *sum* *for* *Dr. Pradyogiki*

Scheme and syllabus approved on 07/072017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005
 (An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidhyalaya, Bhopal)
SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING
 WEF July 2016

FIRST YEAR SECOND SEMESTER

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.	MUP-201	CITY AND METROPOLITAN	70	20	10	-	-	3	1	-	4	100
2.	MUP-202	URBAN HERITAGE CONSERVATION	70	20	10	-	-	3	1	-	4	100
3.	MUP-203	URBAN DEVELOPMENT FINANCE & PROJECT PLANNING	70	20	10	-	-	3	1	-	4	100
4.	MUP-204	LEGAL ISSUES & PROFESSIONAL	70	20	10	-	-	3	1	-	4	100
5.	MUP-205	RESEARCH METHODOLOGY	70	20	10	-	-	3	1	-	4	100
6.	MUP-206	STUDIO-I	-	-	-	90	60	-	-	6	6	150
7.	MUP-207	STUDIO-II	-	-	-	90	60	-	-	6	6	150
			350	120	60	180	120	15	5	12	32	800



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005

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SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

WEF July 2016

SECOND YEAR THIRD SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits	
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios		
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem					Studio Work/ Sessional
1.	MUP-301	ELECTIVE-I	70	20	10	-	3	1	-	4	100
2.	MUP-302	ELECTIVE-II	70	20	10	-	3	1	-	4	100
3.	MUP-303	SEMINAR	-	-	-	-	-	-	6	6	100
4.	MUP-304	DISSERTATION	-	-	-	120	-	-	6	6	200
			140	40	20	120	6	2	12	20	500

Elective I- 1. Inclusive Urban Planning , 2. Planning for Tourism

Elective II- 1. Environment, Development and Disaster Management, 2. Energy, Climate change and Urban Development

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005

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WEF July 2016

SCHEME OF EXAMINATION - **MA~~ST~~ER OF URBAN PLANNING**

SECOND YEAR **FOURTH SEMESTER**

S.N o	Subject Code	Subject Name	Maximum Marks Allotted				Teaching Hours per Week			Total credits		
			Theory		Practical		Lectures (L)	Tutorials (T)	Practical/ Studios			
			End Sem	Mid Sem Test	Assignm ent/ Quiz	End Sem Sessional						
1.	MUP-401	THESIS PROJECT	-	-	-	200	300	-	-	20	20	500
			-	-	-	200	300	-	-	20	20	500

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Scheme and syllabus approved on 07/072017

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005

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SCHEME OF EXAMINATION - ~~M~~ASTER OF URBAN PLANNING

WEF July 2016

MUP-301 ELECTIVE I-

Inclusive Urban Planning

- 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
- 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.
- Planning interventions- Inclusive zoning, development and building regulations, Slum Improvement.

Planning for 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 / stakeholders 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.

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WEF July 2016

SCHEME OF EXAMINATION - MASTER OF URBAN PLANNING

MUP-302 ELECTIVE II-

Energy, Climate change and Urban Development

- Energy generation & 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 : Related to energy planning, conservation, climate change mitigation and adaptation.

Environment, Development and Disaster Management

- Resource use, exploitation and conservation; Impact of human activities on environment; Environment and economy interaction, introduction to environmental accounting.
- Environmental 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 Pertaining to Environment and Disaster Management- Policies and Legislation at various levels.



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005
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SCHEME OF EXAMINATION - **MASTER OF URBAN PLANNING**
WEF July 2016

MUP-304 - DISSERTATION

AIM: Objective of subject Dissertation is to enlighten students on the fundamentals of Research methods before attempting final year Project Thesis. Basics of research to be understood by the students are:

- Basic research principles and research methods.
- Report writing skills

Dissertation will be part of Design Project (A 511) to be further carried and completed in IX semester.

Course Content:

- First phase of dissertation allows students to identify the broad area / field Urban planning of their interest in which they may intend to do the research. This is to be done by studying and reproducing the brief of technical papers in the form of report review.
- Second phase allows the students to do the study of sample example of research already done by choosing the specific aspect / area relevant to broader field they have selected in first phase. This exercise involves the writing of report / review of book / journal dedicated to that specific aspect or area. This review writing is aimed to understand the method of collecting data (survey methods); analysis of data (statistics and mathematical formulas), drawing inferences and conclusion as attempted by the author of the book.
- Third phase is the writing of detailed dissertation report. Students are expected to choose their own topic of research by referring the area / field already identified in other two phases.

NOTE: Sessionals will be submitted in the form of review reports and Dissertation report.

MUP-401 - THESIS PROJECT -

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.

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR - 474005
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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR

FIRST SEMESTER

I & II

S.No	Subject Code	Subject Name	Maximum Marks Allotted							Total credits
			Theory			Practical		Credits Allotted		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional	Theory (Teaching Hours=Credit)	Practical (Teaching Hours= 2xCredits)	
✓ 1	210101	Architecture Design - I (S)	100	20	10	50	100	4	4	8
2	210102	Architectural Materials (T)	50	20	10	-	-	2	-	2
✓ 3	210103	Graphics - I (S)	50	20	10	50	100	2	4	6
4	210104	Fundamental of Structural behavior (T)	50	20	10	-	-	2	-	2
5	210105	History of Architecture-I (T)	50	20	10	-	-	2	-	2
6	210106	English Language (Architecture Appreciation) (T)	50	20	10	-	-	2	-	2
✓ 7	210107	Workshop - I (S)	-	-	-	20	50	-	2	2
		Total	350	120	60	120	250	14	10	24

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

(An Autonomous Institute under Rajiv Gandhi Prodyogiki Vishwavidhyalaya, Bhopal)

SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE WEF July 2017 (GRADING NEW)

FIRST YEAR SECOND SEMESTER

S.N o	Subject Code	Subject Name	Maximum Marks Allotted							Total credits
			Theory			Practical		Credit Allotted		
			End Sem	Mid Sem Test	Assignment / Quiz	End Sem	Studio Work/ Sessional	Theory (Teaching Hours=Credit)	Practical (Teaching Hours= 2XCredits)	
1	210201	Architectural Design - II ^{TES}	100	20	10	50	100	4	4	8
2	210202	Building Construction ^{T/S}	50	20	10	25	50	2	2	4
3	210203	Graphics - II ^{T/S}	50	20	10	25	50	2	2	4
4	210204	Analysis of Structures ^T	50	20	10	-	-	2	-	2
5	210205	History Of Architecture- II ^T	50	20	10	-	-	2	-	2
6	210206	Theory Of Design ^T	50	20	10	-	-	2	-	2
7	210207	Workshop-II ^S	-	-	-	20	50	-	2	2
Total			350	120	60	120	250	14	10	24

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005
 (An Autonomous Institute under rajivGandhiProudyogikiVishwavidyalaya, Bhopal) ^{July}
 CBCS SCHEME OF EXAMINATION- BACHELOR OF ARCHITECTURE ~~WEP~~ 2016 Batch (Admitted)

SECOND YEAR THIRD SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted						Credit Allotted		Total credits
			Theory			Practical			Theory	Practical	
			End Sem	Mid Sem Test	Assignment/ Quiz	End Sem	Studio Work	Assignment/ Quiz			
1	AR 301	Architectural Design-III	100	20	10	50	100	20	2	3	5
2	AR 302	Building Construction - II	50	20	10	20	50	20	2	2	4
3	AR 303	Building Science (Climatology)	50	20	10	-	10	10	2	1	3
4	AR 304	Structures - III	50	20	10	-	10	10	2	1	3
5	AR 305	History Of Western Architecture	50	20	10	-	10	10	2	1	3
6	AR 306	Surveying Leveling & Site Planning	50	20	10	20	50	10	2	2	4
7	AR 307	Art Major Idea generation	-	-	-	20	50	-	0	2	2
8		NSS/ NCC									QUALIFIER
		Total	350	120	60	110	280	80	12	12	24

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MADHAV INSTITUTE OF THCHNOLOGY & SCIENCE (MITS), GWALIOR

(A Grant-in-Aid Autonomous Institute of Government of M.P.)

Course -B.Arch; ARCHITECTURE

SEMESTER :Fourth Semester

Scheme Name -2015

Page 1 of 1

S. No.	Subject Code	Subject Name	Maximum, Minmun Marks Alloted											Credit Allot		Total Credit	
			Theory						Practical					Theory	Practical		
			End Sem		Mid sem		Quiz Ass.		End Sem		Lab Work		Quiz Ass.				
			Max	Min.	Max	Min.	Max	Min.	Max.	Min.	Max.	Min.	Max	Min.			
1	AR 401	Architectural Design – IV	100	40	20	-	10	-	50	20	100	-	20	-	2	3	5
2	AR 402	Building Construction – III	50	20	20	-	10	-	20	8	50	-	20	-	2	2	4
3	AR 403	Building Services – I(Water & Sanitation)	50	20	20	-	10	-	-	-	10	-	10	-	2	1	3
4	AR 404	Structures – IV	50	20	20	-	10	-	-	-	10	-	10	-	2	2	4
5	AR 405	History Of Modern Architecture	50	20	20	-	10	-	-	-	10	-	10	-	2	1	3
6	AR 406	Site planning &Landscaping	50	20	20	-	10	-	20	8	50	-	20	-	2	1	3
7	HS 03	Integrated Ethics & Attitude	-	-	-	-	-	-	-	-	50	-	10	-	0	2	2
			350	140	120	-	60	-	90	36	280	-	100	-	12	12	24

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 MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005
 (An Autonomous Institute under rajivGandhiProudyogikiVishwavidyalaya, Bhopal) *July*
CBCS SCHEME OF EXAMINATION- BACHELOR OF ARCHITECTURE *2015* *Batch (admitted)*

THIRD YEAR FIFTH SEMESTER

Sl. No	Subject Code	Subject Name	Maximum Marks Allotted								Total credits
			Theory			Practical			Credit Allotted		
			End Sem	Mid Sem Test	Assignment/Quiz	End Sem	Studio Work	Assignment/Quiz	Theory	Practical	
1	AR501	Architectural Design - V	100	20	10	50	100	10	3	3	6
2	AR502	Building Construction - IV	50	20	10	50	50	10	3	2	5
3	AR503	Building Services-II (Electrical & Mechanical)	50	20	10	-	20	10	2	1	3
5	AR504	Disaster Management	50	20	10	-	20	10	2	1	3
6	AR505	Ecology & Environment	50	20	10	-	-	10	2	1	3
7	AR506	Elective-I	-	-	-	50	50	10	-	2	2
		1. Graphic Design									
		2. Animation									
8	AR507	3. Design Thinking	-	-	-	-	100	-	-	2	2
		NASA/ Group work									
Total			300	100	50	150	340	60	12	12	24

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005

(An Autonomous Institute under rajivGandhiProudyogikiVishwavidyalaya, Bhopal)

CBCS SCHEME OF EXAMINATION- BACHELOR OF ARCHITECTURE WEF 2016 July 2015 Batch Admitted

THIRD YEAR SIXTH SEMESTER

S.No	Subject Code	Subject Name	Maximum Marks Allotted								Total credits
			Theory			Practical			Credit Allotted		
			End Sem	Mid Sem Test	Assignment/Quiz	End Sem	Studio Work	Assignment/Quiz	Theory	Practical	
1	AR601	Architectural Design – VI	100	20	10	50	100	10	3	3	6
2	AR602	Building Construction - V	50	20	10	50	50	10	2	2	4
3	AR603	Advanced Building Services	50	20	10	-	-	-	3		3
4	AR604	Specification, Estimating & Costing	50	20	10	-	20	10	2	1	3
5	AR605	Town Planning	50	20	10	-	20	10	2	1	3
6	AR606	Elective-II	50	20	10	-	30	10	2	1	3
		1. Vastu									
		2. Sustainable Architecture									
		3. Intelligent Buildings									
7	AR607	Working Drawing	-	-	-	50	50	-	-	2	2
Total			350	120	60	150	270	50	14	10	24

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE

July 2014 Batch (Admitted)

FOURTH YEAR - SEVENTH SEMESTER

SEMESTER - VII

S. No.	Course Code	Subjects	Period Per Week		Total Teaching Hours	Distribution of Marks											Grand Total	Total Credits
						Theory Block					Theory Exam Duration (Hrs.)	Practical Block						
						End Sem exam	MST	Quiz Assignment	Total theory block	Credits		End Sem	Term work/ Sessional	Contin uous Assess ment	Total Practical block	Credits		
L	STUDI O / T	Total Contact Hour																
1	A411	Design-VII	3	7	10	100	30	20	150	03	24	50	50	50	150	07	300	10
2	A412	Adv. Building Construction-VI	3	4	07	50	20	10	80	03	03	50	50	20	120	04	200	07
3	A413	Adv. Building Services-VI	3	2	05	50	20	10	80	03	03	-	30	20	50	02	130	05
4	A414	Ecology & Environment	3	2	05	50	20	10	80	03	03	-	30	10	40	02	120	05
5	A415	Town Planning	3	3	06	50	20	10	80	03	03	-	30	20	50	03	130	06
6	A416	Dissertation	-	3	03	-	-	-	-	-	-	50	50	20	120	03	120	03
Total			15	21	36	300	110	60	470	15		150	240	140	530	21	1000	36

Final Scheme of Examination, (4+1) for Architecture, MITS, Gwalior, w. e. f. July 2010

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MADRAS INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005
 (An Autonomous Institute under Rajiv Gandhi Proudyogiki Vishwavidyalay, Bhopal)

SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE

July 2014 Batch (Admitted)

FOURTH YEAR – EIGHTH SEMESTER

SEMESTER – VIII

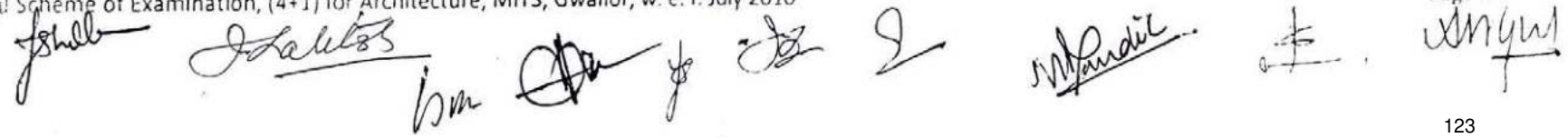
S. No.	Course Code	Subjects	Period Per Week		Total Teaching Hours	Distribution of Marks											Grand Total	Total Credits
						Theory Block					Theory Exam Duration (Hrs.)	Practical Block						
						End Sem exam	MST	Quiz Assignment	Total theory block	Credits		End Sem	Term work/ Sessional	Continous Assessment	Total Practical block	Credits		
						L	STUDIO / T	Total Contact Hour	I					II				
1	A421	Thesis Project	-	23	23	-	-	-	-	-	-	300	200	120	620	23	620	23
2	A422	Urban Design	3	2	05	50	20	10	80	03	03	25	20	10	55	02	135	05
3	A423	Professional Practice	2	1	03	50	20	10	80	02	03	-	20	10	30	01	110	03
4	A424	Elective I *	3	2	05	50	20	10	80	03	03	25	20	10	55	02	135	05
Total			08	28	36	150	60	30	240	08		360	260	150	760	28	1000	36

A421 - Thesis Project: The students' work shall be evaluated through stage wise internal jury, conducted periodically during the semester. The final jury shall be conducted as **End semester practical exam**.

The final jury consists of the following jury members: 1. Head of the Department 2. One Professor 3. One Associate Professor 4. One Assistant Professor 5. Guide 6. **Three external members** out of these one from academics and one from field is compulsory.

A424 - Elective I-(Any One): 1. Interior Design 2. Sustainable Architecture 3. Disaster Management & Earthquake Resistant Structures 4. Intelligent Building Systems 5. Architectural journalism 6. GIS & Remote sensing

*Note: The students may choose two electives at a time.



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005

(An Autonomous Institute under Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Anupal)

SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE

July 2013 admitted Batch

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Ref-337-
01/02/2018

FIFTH YEAR - NINTH SEMESTER

SEMESTER - IX

S. No.	Course Code	Subjects	Period Per Week		Total Teaching Hours	Distribution of Marks										Grand Total	Total Credits	
						Theory Block					Theory Exam Duration (Hrs.)	Practical Block						
						End Sem exam	MST	Quiz Assignment	Total theory block	Credits		End Sem	Term work/ Sessional	Contin uous Assessment	Total Practical block			Credits
L	STUDIO / T	Total Contact											I+II					
1	ARS11	Practical training	-	-	-	-	-	-	-	-	-	500	300	200	1000	36	1000	36
Total			-	-	-	-	-	-	-	-	-	500	300	200	1000	36	1000	36

ARS11 - Practical training:

- The students' work will be evaluated through monthly progress report / diary in the end of each month under continuous Assessment.
- Monthly progress report/diary, duly signed by the Architect, shall be submitted to the department, by the student up to 7th date of each month positively, online or in hard copy.
- The students' performance during the training shall be evaluated by a Jury at the end of the semester along with the IX semester examinations.
- The constitution of jury shall be - two external examiners, one Academician & one professional and two internal examiners, at least one shall be Professor or Head.

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Final Scheme of Examination, (4+1) for Architecture, MITS, Gwalior, w. e. f. July 2010

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR – 474005

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SCHEME OF EXAMINATION - BACHELOR OF ARCHITECTURE July 2013 admitted batch.

FIFTH YEAR – TENTH SEMESTER

SEMESTER – X

S. No.	Course Code	Subjects	Period Per Week		Total Teaching Hours	Distribution of Marks											Grand Total	Total Credits
						Theory Block					Theory Exam Duration (Hrs.)	Practical Block						
						End Sem exam	MST	Quiz Assignment	Total theory block	Credits		End Sem	Term work/ Sessional	Contin uous Assessment	Total Practical block	Credits		
L	STUDIO / T	Total Contact																
1	A521	Practical training	-	-	-	-	-	-	-	-	-	400	250	100	750	27	750	27
2	A522	General Proficiency	-	-	-	-	-	-	-	-	-	250	-	-	250	09	250	09
Total			-	-	-	-	-	-	-	-	-	650	250	100	1000	36	1000	36

A521 - Practical training:

- The students' work will be evaluated through monthly progress report / diary in the end of each month under continuous Assessment.
- Monthly progress report/diary, duly signed by the Architect, shall be submitted to the department, by the student up to 7th date of each month positively, online or in hard copy.
- The students' performance during the training shall be evaluated by a Jury at the end of the semester along with the X semester examinations.
- The constitution of jury shall be - two external examiners, one Academician & one professional and two internal examiners, at least one shall be Professor or Head.

A522- General Proficiency:

The student shall prepare a report showing their performance in curricular and extracurricular activities during the course of studies from I semester to X semester, in chronological order.

Final Scheme of Examination, (4+1) for Architecture, MITS, Gwalior, w. e. f. July 2010

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