

**SAVITRIBAI PHULE PUNE UNIVERSITY**

**[FORMERLY UNIVERSITY OF PUNE]**



**RULES AND REGULATIONS FOR M.ARCH. PROGRAMS IN  
ARCHITECTURE**

**(To be implemented w.e.f. A.Y. 2019-20)**

**BOARD OF STUDIES IN ARCHITECTURE  
FACULTY OF SCIENCE AND TECHNOLOGY**

## **RULES AND REGULATIONS FOR MASTER OF ARCHITECTURE PROGRAMS**

The Savitribai Phule Pune University offers full time two years M. Arch. courses in various specializations. The present rules are applicable to the revised curriculum hence forth called as the “2019 Pattern M. Arch.” and will be implemented with effect from the academic year 2019-20.

### **RULE NO. 1: ELIGIBILITY CRITERIA FOR ADMISSION**

A student seeking admission to Master of Architecture Course must fulfil the eligibility criteria laid down by the competent admission authority and rules of admission as applicable from time to time.

### **RULE NO. 2: SCHEME OF ASSESSMENT:**

A candidate, to be eligible for the Master’s Degree in Architecture, will be required to appear for and pass examinations as under

1. First Year M. Arch: SEM I AND SEM II
2. Second Year M. Arch.: SEM III AND SEM IV

	<b>M. Arch</b>	<b>Credits</b>
1	Semester I	25
2	Semester II	25
	<b>Total Credits for First Year M. Arch</b>	<b>50</b>
3	Semester III	25
4	Semester IV	25
	<b>Total Credits for First Year M. Arch</b>	<b>50</b>
	<b>Total Credits</b>	<b>100</b>

### **RULE NO. 3: GRANTING OF TERM**

Academic year will consist of TWO SEMESTERS of 90 teaching days each. Sessional work/ assignments prepared by the students shall be continuously assessed by the Internal Teacher throughout the semester.

The candidate will be permitted to appear for the examinations at the end of each semester only if he/she fulfils the following norms and produces testimonials from the Principal for

1. 75% attendance in each head of passing of Theory and /or Sessional work as prescribed by the University.
2. Satisfactory completion of the Sessional Work prescribed for each subject and secured at least 50 % marks in the Internal Assessment for the same.
3. Good conduct.

### **RULE NO.4: RULES OF PASSING**

- 4.1 To pass sessional [SS] and /or sessional viva [SV], the student must earn minimum 50% marks in each head.
- 4.2 To pass the theory subject head the student must earn minimum of 50% marks in the End semester exam and minimum 50% average marks (In-Semester Assessment + End semester).
- 4.3 For theory subjects the failing student can repeat the end semester exam to pass the head in any semester and the In-semester assessment exam marks will be retained as it is. Or the failing student can repeat end semester exam as well as In-semester assessment for the head of even semester in the even semester only and for the head of odd semester in the odd semester.
- 4.4 To earn credits of a course (paper/ SS/ SV) student must pass the course with minimum passing marks / grade.
- 4.5 Student can apply only for the revaluation / photocopying / verification of answer sheets of End semester theory exam only.

**Candidates admitted to the course shall complete the course within 4 years of admission to the course.**

## **RULE NO. 5: NATURE OF ASSESSMENT**

### **THEORY HEADS**

- 5.1.1 In case of theory subjects assessment shall consist of CA-Continuous assessment [30%] referred as In Semester assessment. ESE(ETE)-End of Semester(Term) Examination [70%]. The concerned teacher is responsible for conduct and evaluation towards CA.-However, the ESE (ETE) shall cover the entire syllabus prescribed for that course.
- 5.1.2 The In Semester shall be in form of Journal/Lecture/Library notes, Short Quizzes, Seminar presentation, Assignments, Extension Work, An Open Book Test (book to be decided by the concerned teacher), Mini Research Project by an individual student or a group of students A teacher may devise a mechanism other than written test in addition to above in order to flourish the course contents.

### **SESSIONAL AND/OR SESSIONAL VIVA HEAD**

- 5.2.1 Continuous Assessment for Sessional to be maintained and record to be kept by the subject faculty. The weightage of this continuous assessment shall be 50% of the total marks allocated for the sessional work. The remaining marks to be given by the external examiner.
- 5.2.2 Viva voce to be jointly conducted by internal and external examiner at the end of the semester and the weightage for internal and external examiner's assessment will be equal [50:50].

5.3 At all the examinations **except** for the SEMESTER IV: PROJECT, external assessment shall be carried out by an expert from the field or expert associated with any other Institute and not teaching that or any other subject in the institute where the examination is being conducted.

5.4 For fourth semester Project, an external examiner means a professional not teaching in the institute where the course is being conducted and Internal Examiner is one who is teaching that particular subject in the same/any other college under the University. Any examiner shall have a master's degree in relevant subject and five years teaching/professional experience in a field of study relating to the subject of examination. However, an external examiner for fourth Semester Project Shall have master's degree in relevant subject and minimum of 10 years teaching/professional experience.

**RULE NO. 6: PRE- REQUISITES AND RULES OF A.T.K.T.**

The admission for the next semesters shall be as per the following table of pre requisites and rules of ATKT

Admission to semester	Prerequisites for admission
Semester I	As per admission norms of competent authority
Semester II	-----
Semester III	Min. 50% of total credits of Semester I and semester II together
Semester IV	Semester I – 100% credits and Min. 50% of total credits of Semester II and semester III together

**RULE NO. 7: GRADING SYSTEM**

**7.1 Assessment and Grade Point Average**

- While marks will be given for all examinations, they will be converted into grades. The Semester End Grade sheets will be generated by using marks and grades and the final grade sheets and transcripts shall have grade points average and total percentage of marks (up to two decimal points). The final grade sheet will also indicate the PG Department/Center to which the candidate is registered.
- Result of a student will be declared for each semester after the ESE (ETE) only.
- The student will get a Grade Sheet with total grades earned and a Grade Point Average, after earning the minimum number of credits towards the completion of a PG program.

**Table 2**  
**GRADING SYSTEM FOR SUBJECT HEAD / AGGREGATE**

<b>Grade</b>	<b>Grade Points</b>	<b>% of Marks Obtained</b>	<b>Remarks</b>
O	10	90-100	Outstanding
A	9	80-89	Very good
B	8	70-79	Good
C	7	60-69	Fair
D	6	50-59	Average
F	0	Below 50	Fail

### 7.2 Passing Grade

The grades **O, A, B, C, D**, are passing grades. A candidate acquiring any one of these grades in a course shall be declared as pass. And student shall earn the credits for a course only if the student gets passing grade in that course.

### 7.3 F Grade

The grade **F**-shall be treated as a failure grade. The student with **F** grade will have to pass the concerned course by re-appearing for the examination.

## Rule No. 8. PERFORMANCE INDICES:

### 8.1 SGPA

The semester end grade sheet will contain grades for the course along with titles and SGPA. Final grade sheet and transcript shall contain CGPA.

SGPA: The performance of a student in a semester is indicated by a number called the semester grade point average (SGPA). The SGPA is the weighted average of grade points obtained in all the courses registered by the student during the semester.

Semester Grade Point Average (SGPA) =

$$\begin{aligned}
 \text{SGPA} &= \frac{\sum_{i=1}^p C_i G_i}{\sum_{i=1}^p C_i} \\
 &= \frac{\sum \text{Grade Points earned} \times \text{Credits for each course}}{\text{Total Credits}}
 \end{aligned}$$

For example: Suppose in a given semester a student has registered for five courses having credits C1, C2, C3, C4, C5 and his / her grade points in those courses are G1, G2, G3, G4, G5 respectively,

Then the SGPA would be

$$\text{SGPA} = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}$$

**SGPA** is calculated up to two decimal places by rounding off.

**8.2. CGPA:** The CGPA is the weighted average of the grade points obtained in all the courses (theory /sessional / sessional viva-voce) of **all the FOUR** semesters. It is calculated in the same manner as the SGPA. It is calculated based upon the SGPA of the concerned semesters.

**Rule no. 09: RESULT**

Based on the performance of the student in the semester examinations, the Savitribai Phule Pune University will declare the results and issue the Semester grade sheets. The Savitribai Phule Pune University will issue a Master’s Degree Certificate and the final grade sheet of Semester I, II, III & IV, to the student, who is otherwise eligible for the award of Degree of Master of Architecture. The class shall be awarded to a student on the CGPA calculated based on all the four semesters. The award of the class shall be as per Table No. 3

The class shall be awarded to a student on the CGPA calculated as per rule no. 8.2.

**Table 3**

<b>Sr.No.</b>	<b>CGPA</b>	<b>Class of the degree awarded</b>
1	7.75 or more than 7.75	First class with distinction
2	6.75 or more but less than 7.75	First class
3	6.25 or more but less than 6.75	Higher second class
4	5.5 or more but less than 6.25	Second class

In case of a student clearing a failed course or improvement, the earlier grade would be replaced by the new grade in calculation of the SGPA and CGPA.

**RULE NO. 10: EXEMPTIONS**

In case a candidate fails and desires to appear again,

- a) He/she will be exempted from appearing in the head/s of passing in which he/she has passed.
- b) A candidate will have to appear for the examination of backlog subjects along with the examination of current semester, subject to the provisions of the In - Semester examinations mentioned above.
- c) Above a) and b) are subject to provisions of passing and pre-requisites mentioned in these rules and regulations.

**RULE NO. 11: OTHER RULES:**

University may frame additional rules and regulations or modify these regulations if required, and once approved by the University, they would be binding on the students.

**SAVITIRIBAI PHULE PUNE UNIVERSITY PUNE**

**COURSE STRUCTURE FOR MASTERS IN ARCHITECTURE PROGRAMS**

Course work	Semester I	Semester II	Semester III	Semester IV	Total
Core courses	14	14	17	-	45
Elective Courses	3	3	-	5	11
Lab Courses	2	2	2	-	06
Supportive courses	6	6	6	-	18
Project work	-	-	-	20	20
<b>Total</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>100</b>

1 Clock hour = 1 credit

Professional Training (40 full working days) to be undertaken during intermediate time between II & III Semesters, details of which are mentioned in the detailed syllabus. The Oral Assessment of the same will be held at the end of Semester III. The subject is included as core subject and will have both sessional and viva assessment.

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**SAVITRIBAI PHULE PUNE UNIVERSITY**

**(FORMERLY UNIVERSITY OF PUNE)**



**SYLLABUS FOR**

**MASTERS IN ARCHITECTURE**

**M.ARCH. (ARCHITECTURAL CONSERVATION)**

**(To be implemented w.e.f. A.Y. 2019-20)**

**BOARD OF STUDIES IN ARCHITECTURE**

**FACULTY OF SCIENCE AND TECHNOLOGY**



## **PREAMBLE-**

Cultural resources of India are vast and diverse. Built heritage is one of the important and huge components of the cultural resources and needs careful attention. Conservation practices which have evolved from monument conservation today focus on cultural landscape. It is a comprehensive term stretching the boundaries of conservation practices to include diverse fields.

Heritage conservation practices are multi-disciplinary in nature and hence the training in conservation extends beyond the existing architectural curriculum in terms of the necessity of inclusion of interdisciplinary subjects from various fields. Nature of conservation projects varies in terms of scale and expertise and is becoming case specific.

The focus on living heritage brings many related fields into the realm of conservation practices. The curriculum should equip the conservation professional with technical as well as managerial skills. His role ranges from a conservation architect, conservation planner to heritage manager with sound philosophical base.

The proposed curriculum tries to address these demands of conservation practices to produce conservation experts capable of taking the emerging challenges in the field. It also tries to build the regional database of cultural resources through academic exercises.

The curriculum stresses the need of sound exposure to the students of the current conservation practices by engaging them in live projects to make them aware of nuances of conservation projects.

## **PROGRAM EDUCATIONAL OBJECTIVES [PEO]-**

1. **KNOWLEDGE BASE** – Develop a strong knowledge base of conservation sciences and philosophy with trans-disciplinary approach.
2. **SKILLS** – Develop skills sets needed for responsible conservation practices.
3. **RESEARCH** – Generate a research culture that will help in promoting authentic conservation practices.
4. **ETHICS** – Inculcate in students the ethics for responsible and sensitive conservation practices.
5. **COMMITMENT** – Develop committed conservation professionals to serve in the interest of betterment of society.

## **PROGRAM OUTCOMES [PO]**

1. **HOLISTIC KNOWLEDGE** - Imparting holistic knowledge of historic built environment based on multidisciplinary approach along with the recent advances in conservation sciences.

2. **PROFESSIONAL SKILLS** – Developing professional skills to handle conservation challenges of various nature and scales with leadership qualities and strong communication skills.
3. **RESEARCH CULTURE**- Develop a strong research culture to address the challenges in conservation practices effectively.
4. **ETHICS**- Inculcate high ethical values in budding conservation professionals to create responsible and sensitive conservation experts.
5. **COMMITTED PROFESSIONALS** – Develop committed conservation professionals who will work for the betterment of society for sustainable future.

<b>Sr No</b>	<b>Program outcomes</b>	<b>Subjects in curriculum</b>
1	Holistic Knowledge	Intro to Conservation, Material Culture Studies, Planning theory, Structural conservation I and II, History, Theory and Criticism, Conservation Management, Cultural landscape, Conservation Legislation, Heritage Risk assessment and Mitigation
2	Professional Skills	Conservation Studio-I, Studio-II, studio- III, Project, Conservation Practices and Training
3	Research Culture	Conservation Studio-I, Studio-II, studio- III, Project,
4	Ethics	Conservation Practices and Training, Research I and II
5	Committed Professionals	Conservation Studio-I, Studio-II, studio- III, Project

<b>Sr No</b>	<b>Electives</b>	<b>Tentative Subjects for Electives</b>
01	Elective I( Sem I)	1.Digital Tools 2. Building Performance 3.Advance Documentation Methods
02	Elective II ( Sem II)	1.Urban Design 2. City and Theory 3. Urban Regeneration
03	Elective III( Sem IV)	Open Elective –Choice based -Interdisciplinary or Industry Linked Elective

Note- The Institute shall have the freedom to offer listed or any additional subjects based on the availability of experts.

**MATRIX OF PROGRAM EDUCATIONAL OBJECTIVES AND PROGRAM OUTCOMES**

PEO	PO1 Holistic Knowledge	PO2 Professional Skills	PO3 Research Culture	PO4 Ethics	PO5 Committed Professionals
PEO1 <b>Knowledge Base</b>	√	√	√	√	
PEO2 <b>Skills</b>	√	√	√	√	√
PEO3 <b>Research</b>	√		√		√
PEO4 <b>Ethics</b>		√		√	√
PEO5 <b>Commitment</b>		√	√	√	√

<b>Semesters I - M.ARCH. (ARCHITECTURAL CONSERVATION)</b>											
<b>Course Code</b>	<b>Course Title</b>	<b>Course Type</b>	<b>Contact Periods (60 mins)</b>	<b>Teaching Scheme</b>			<b>Examination Scheme</b>				<b>Marks</b>
				<b>Theory/week</b>	<b>Studio/week</b>	<b>Credits</b>	<b>SS</b>	<b>SV</b>	<b>Th</b>		
									<b>In Sem</b>	<b>End Sem.</b>	
2019AC101	Conservation Studio- I	C1	10	2	08	10	-	400	Nil	Nil	<b>400</b>
2019AC102	Elective – I	EL	3	1	2	3	100	Nil	Nil	Nil	<b>100</b>
2019AC103	Introduction To Conservation	C2	4	2	2	4	200	Nil	Nil	Nil	<b>200</b>
2019AC104	Material Culture Studies	SP1	3	2	1	3	Nil	Nil	30	70	<b>100</b>
2019AC105	Planning Theory	SP2	3	2	1	3	Nil	Nil	30	70	<b>100</b>
2019AC106	Structural Conservation- I	L	2	1	1	2	100	Nil	Nil	Nil	<b>100</b>
			<b>25</b>	10	15	<b>25</b>	400	400			<b>1000</b>

<b>For Semesters II - M.ARCH. (ARCHITECTURAL CONSERVATION)</b>											
S. No. Course Code	Course Title	Cour se Type	Contact Periods (60 mins)	Teaching Scheme			Examination Scheme				
				Theor y/ we ek	Stud io/ wee k	Cre dits	SS	SV	Theory		Marks
									In Sem	End Sem.	
2019AC201	Conservation Studio- II	C1	10	2	8	10	-	400	Nil	Nil	<b>400</b>
2019AC202	Elective – II	EL	3	2	1	3	100	Nil	Nil	Nil	<b>100</b>
2019AC203	History, Theory and Criticism	C2	4	2	2	4	200	Nil	Nil	Nil	<b>200</b>
2019AC204	Conservation Management	SP1	3	2	1	3	Nil	Nil	30	70	<b>100</b>
2019AC205	Research I	SP2	3	2	1	3	Nil	Nil	30	70	<b>100</b>
2019AC206	Structural Conservation- II	L	2	1	1	2	100	Nil	Nil	Nil	<b>100</b>
			<b>25</b>	11	14	<b>25</b>	400	400			<b>1000</b>

<b>Semesters III - M.ARCH. (ARCHITECTURAL CONSERVATION)</b>											
S. No. Course Code	Course Title	Course Type	Contact Periods (60 mins)	Teaching Scheme			Examination Scheme				Marks
				Theor y/wee k	Stud io/ wee k	Cre dits	SS	SV	Theory		
									In Sem	End Sem	
2019AC301	Conservation Studio- III	C1	10	2	08	10	-	400	Nil	Nil	<b>400</b>
2019AC302	Research II	C2	3	2	1	3	100	Nil	Nil	Nil	<b>100</b>
2019AC303	Conservation Practices and Training **	C3	4	2	2	4	-	200	Nil	Nil	<b>200</b>
2019AC304	Cultural Landscape	SP1	3	2	1	3	Nil	Nil	30	70	<b>100</b>
2019AC305	Conservation Legislation	SP2	3	2	1	3	Nil	Nil	30	70	<b>100</b>
2019AC306	Heritage Risk Assessment and Mitigation	L	2	1	1	2	100	Nil	Nil	Nil	<b>100</b>
			<b>25</b>	11	14	<b>25</b>	200	600			<b>1000</b>

\*\* - This includes Professional Training (40 full working days) to be undertaken during intermediate time between II & III Semester, details of which are mentioned in the detailed syllabus. The Oral Assessment of the same will be held at the end of Semester III. The subject is included as core subject and will have both sessional and viva assessment.

<b>Semesters IV - M.ARCH. (ARCHITECTURAL CONSERVATION)</b>											
<b>Course Code</b>	<b>Course Title</b>	<b>Course Type</b>	<b>Contact Periods (60 mins)</b>	<b>Teaching Scheme</b>			<b>Examination Scheme</b>				<b>Marks</b>
				<b>Theor y/ we ek</b>	<b>Stud io/ wee k</b>	<b>Cre dits</b>	<b>SS</b>	<b>SV</b>	<b>Th</b>		
									<b>In Sem</b>	<b>End Sem.</b>	
2019AC401	Conservation Project	C1	20	4	16	20	-	800	Nil	Nil	<b>800</b>
2019AC402	Elective III*	EL	5	2	3	5	200	-	Nil	Nil	<b>200</b>
			<b>25</b>	<b>6</b>	<b>19</b>	<b>25</b>	<b>200</b>	<b>800</b>	<b>Nil</b>	<b>Nil</b>	<b>1000</b>

\*Elective III can be offered as an open elective. In case it is not possible to offer open elective, colleges should offer any elective from the list of electives which the student has not undertaken in any previous semester.

# **DETAIL SYLLABUS**

## **SEM - I**



<b>SUBJECT TITLE:</b> <b>CONSERVATION STUDIO-I</b>				
<b>Subject Code : 2019AC101</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	
Theory Periods per week	2	Sessional	300	
Studio Periods per week	8	Viva/Oral	100	
<b>Total Contact Periods (60 min period) per week</b>	<b>10</b>	In-semester Examination	Nil	
		End-semester Examination	Nil	
<b>Total Credits</b>	<b>10</b>	<b>Total Marks</b>	<b>400</b>	

**COURSE OBJECTIVES:** Focus of studio is on historic building in a historic area through various surveys, its analysis. Conservation of the building to be demonstrated with desired interventions at building level as well as the vicinity addressing town's requirements at large.

**COURSE CONTENT:**

Unit	Contents
Unit I	Historical research, Perception of the user society
Unit III	Inventory formation and detail documentation
Unit IV	Analysis for materials, techniques, spatial arrangement, art and crafts, significant element
Unit V	Statement of significance and identification of issues
Unit VI	Conservation interventions
Unit VII	Adaptive Reuse Proposal

**SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

Documentation, analysis and proposal drawings with relevant case studies, archival research, along with Report, models etc.

**OUTCOME:**

The emphasis is on methods of data collection, analysis and inferences for conservation and design proposals.

**RECOMMENDED READINGS:**

- Divay Gupta (2006) Conservation Brief- Identification and documentation of Built Heritage in India by INTACH
- Butterworth (1990) Guide to recording Historic Buildings by ICOMOS
- Priyaleen Singh Conservation Brief- Historic gardens: Making An Inventory by INTACH

<b>SUBJECT TITLE: ELECTIVE - I</b>				
Subject Code : 2019AC102				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	
Theory Periods per week	01	Sessional	100	
Studio Periods per week	02	Viva/Oral	Nil	
<b>Total Contact Periods (60 min period) per week</b>	<b>03</b>	In-semester Examination	Nil	
		End-semester Examination	Nil.	
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	

**COURSE OBJECTIVES:** Elective will introduce student to the emerging digital tools and technology that are being used in conservation practices.

**COURSE CONTENT:**

Individual college/institute may offer the students one or more topics, depending upon the availability of experts and resource material. The colleges will have the opportunity to focus on one or more of the following topics:

- 1. Digital Tools**
- 2. Building Performance**
- 3. Advance Documentation Methods**

Detailed syllabus for all topics will be finalized by individual college/institute in consultation with expert faculty, considering the time and marks allotted to the subject.

**SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

Sessional works includes drawings, models, presentations prepared using digital tools in mapping, analysis and communication.

**OUTCOME:**

Students will be equipped with desired digital technology know- how needed in heritage conservation practices.

**Recommended Readings**

1. . Woodbury,R. *Parametric; Design for Architecture* Routledge,NewYork
2. Tedeschi,A.(2014) *Algorithmic aided design* . Le Penseur
3. Payne,A.(2010), *The Grasshopper Primer\_Second Edition*. **Modelab & Gitbook**

SUBJECT TITLE: <b>INTRODUCTION TO CONSERVATION</b>				
Subject Code : <b>2019AC103</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Mark s</b>	
Theory Periods per week	02	Sessional	200	
Studio Periods per week	02	Viva/Oral	Nil	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>04</b>	In-semester Examination	Nil	
		End-semester Examination	Nil	
<b>Total Credits</b>	<b>04</b>	<b>Total Marks</b>	<b>200</b>	

#### **COURSE OBJECTIVES:**

To orient student to the concept of conservation, its evolution and philosophy and technical aspects of conservation.

#### **COURSE CONTENT:**

<b>Unit</b>	<b>Content</b>
Unit I	Theories of Conservation and its concepts & Background
Unit II	Introduction to Conservation Approaches and Organizational setup, various charters- International & National.
Unit III	Documentation Methods –Modern Trends & Digital Technologies
Unit IV	Heritage Legislations- and its reaches –Indian Context
Unit V	Conservation Practices and its challenges, Technical requirements of a conservation project
Unit VI	Research component in a conservation project

#### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- book /Journal /article /research paper review writing
- tutorial / article writing

- seminar presentation
- thematic heritage mapping and survey techniques based on studio
- Heritage potential and value assessment based on studio.
- Critical appreciation of a conservation project.

#### **OUTCOME:**

- Heritage mapping and its value assessment through primary field survey.
- Developing understanding on different approaches in conservation through trends for Indian Context.
- Critical appreciation of conservation interventions through live cases.
- Enhancing abilities to formulate different types of inventories, defect and condition mapping, damage assessment at a Building level.

#### **RECOMMENDED READINGS:**

- Sir Bernard Fieldon., (1990) A Technical Manual. INTACH –Delhi chapter
- Jukka Jokilehto, A History of Architectural Conservation.1986- PhD thesis, The University of York,England .
- Sir John Marshall, Conservation Manual (1923), A.S.I – British India.
- All International and National Charters by UNESCO

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SUBJECT TITLE: <b>MATERIAL CULTURE STUDIES</b>				
Subject Code : <b>2019AC104</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	Nil	
Studio Periods per week	01	Viva/Oral	Nil	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>03</b>	In-semester Examination	30	
		End-semester Examination	70	150 min
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	

#### **COURSE OBJECTIVES:**

- To introduce students to understand how material culture communicate ideas in history, archaeology and helps better understanding of the culture pertaining to it.
- It also attempts to induce the role of Anthropology as a social science, its correlation with contemporary cultural resources as an integral aspect of sustainability.

#### **COURSE CONTENT:**

<b>Unit</b>	<b>Content</b>
Unit I	Introduction to Material Culture and its role in interpreting past
Unit II	Methodology of Studying Material Culture & its resources
Unit III	Archaeological and Anthropological Approaches in exploring past
Unit IV	Social History and Material Culture
Unit V	Technology, Built Habitat And Material Culture
Unit VI	Museology & Preservation of Material culture

#### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- book /Journal /article /research paper review writing
- tutorial / article writing
- seminar presentation on tools of management
- World Heritage sites and concepts of archeological parks
- formulation of Management framework
- Critical appreciation of Museum project

#### **OUTCOME:**

- Material Cultural resource identification, mapping and its interpretation.
- Developing understanding on different social sciences approaches in relation to heritage conservation through trends for Indian Context.
- Field study – Museum Visit and report - Critical appreciation of Museum project and preservation techniques of material evidences.
- Project – research on material culture of the settlement taken up in the studio I- Enhancing abilities to formulate different types of inventories, defect and condition mapping, damage assessment of material evidences and artifacts in association to build environs.

#### **RECOMMENDED READINGS:**

- Tilley, Chris, Webb Keane, Susanne Kuechler, Mike Rowlands, Patricia Spyer (2006) *Handbook of Material Culture*, Sage Publication
- Dan Hicks, Mary C. Beaudry(2010) *The Oxford Handbook of Material Culture Studies*, The Oxford University Press, Oxford
- Henry H. Glassie (1999), *Material culture*, Indiana University Press,

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<b>SUBJECT TITLE:</b> <b>PLANNING THEORY</b>				
Subject Code : 2019AC105				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	Nil	
Studio Periods per week	01	Viva/Oral	Nil	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>03</b>	In-semester Examination	30	
		End-semester Examination	70	150 min
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	

### **COURSE OBJECTIVES:**

- To introduce students to the various streams of planning that directly or indirectly influence the process of conservation.
- Historic Housing forms the major part of historic core of towns or villages. The Objective is to understand the typology and transformation processes in the living heritage of housing and highlight the relation of transformation and conservation process.

### **COURSE CONTENT:**

- Unit I Planning objectives and introduction to planning terminologies, plans development structures,
- Unit II Introduction to planning streams like urban planning, regional planning, traffic and transportation, environmental Planning and housing
- Unit III Overview of planning acts and development controls, byelaws having impact in historic areas. Planning for conservation interventions.
- Unit IV Morphology of a traditional habitat, Housing typology, concepts, policies, socio-political aspects of urbanization, urban growth
- Unit V Methodology to study existing housing stock, characteristics, problems& Management of housing stock
- Unit VI Conservation efforts for historic housing

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- book /Journal /article /research paper review writing
- tutorial / article writing
- Field study –seminar presentation on Traditional Housing
- World Heritage sites and conservation of historic housing

- Project - Critical appreciation DP- development plans
- Book study – Conservation efforts in Planning, review of development plans CDP-Delhi Case study

**OUTCOME:**

- Understanding traditional sustainable means of development and its background
- Critical appreciation of concepts of Planning and development over the period.
- Enhancing abilities to formulate Heritage sensitive development and planning in present context of Historic settlements

**RECOMMENDED READINGS:**

- Reading Materials By ITPI
- Peter Hall (2002) *Urban And Regional Planning* , Routledge, London
- Urban Planning Guide – American Society of civil engineers

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<b>SUBJECT TITLE:</b>				
<b>STRUCTURAL CONSERVATION - I</b>				
Subject Code : <b>2019AC106</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	
Theory Periods per week	01	Sessional	100	
Studio Periods per week	01	Viva/Oral	Nil	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>02</b>	In-semester Examination	Nil	
		End-semester Examination	Nil	
<b>Total Credits</b>	<b>02</b>	<b>Total Marks</b>	<b>100</b>	

### **COURSE OBJECTIVES:**

This course provides introduction to the practical and technical aspects of the traditional material of historic buildings and related conservation techniques and to introduce to structural behaviour of traditional structures.

### **COURSE CONTENT:**

- Unit I Study of traditional structures
- Unit II
  - Traditional materials – properties, behaviour with lab experiments and defects
  - Characterization of materials and compatibility of its usage
- Unit III Structural Behaviour of traditional structures
- Unit IV Diagnosis and assessment of defects in building materials by atmospheric elements
- Unit V New Building materials in conservation practices
- Unit VI New conservation techniques and role of software's in assessing structural conditions, Remedial measures

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- Minimum six assignments based on,
- Field study –Hands on or site visit of least one ongoing conservation project
- Book study – case studies
- Project – Detail Documentation of a traditional structure
- Lab study of a material

**OUTCOME:** Students will acquire knowledge of traditional materials and their behavior and workability. The assignments shall include on site observation and application to develop measures of conservation

**RECOMMENDED READINGS:**

- W Morgan's. (1964). *The elements of Structure*. Great Britain by Pitman Publishing Limited
- Henry J. Cowan. (1981). *Structural Systems*. Van Nostrand Reinhold co.
- Hoyle Robert. (1973). *Wood Technology in the Design of Structures*. Iowa State Pr; subsequent edition
- Gurmeet S Rai, P Desarkar. (2006). *What are Lime Mortar*. INTACH UK TRUST
- Forsyth, Michael. (2008). *Material & Skills for Historic Building Conservation*. Balckwell Publishing Ltd.

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# **DETAIL SYLLABUS**

## **SEM - II**

<b>SUBJECT TITLE:</b> <b>CONSERVATION STUDIO–II</b>				
Subject Code : <b>2019AC201</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	
Theory Periods per week	2	Sessional	300	
Studio Periods per week	8	Viva/Oral	100	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>10</b>	In-semester Examination	Nil	
		End-semester Examination	Nil	
<b>Total Credits</b>	<b>10</b>	<b>Total Marks</b>	<b>400</b>	

### **COURSE OBJECTIVES:**

- Objective of this subject is to introduce student to identify the urban heritage and complexities involved in devising conservation policy and supporting strategies for same.
- Training the students to map urban heritage and record transformations through urban pressures.
- Develop through understanding of historic layers of the surrounding precinct and formulate a design in context program catering to modern needs of the locality in an architectural vocabulary corresponding the historic context.

### **COURSE CONTENT:**

<b>Unit</b>	<b>Content</b>
Unit I	Identification of urban heritage in historic town and archival research.
Unit II	Mapping heritage & Identification of issues, through primary research ,performing SWOT
Unit III	Devising a comprehensive conservation policy dealing all levels of interventions
Unit IV	Delineating a heritage precinct in the town with urban attributes.
Unit V	Devising Area conservation strategy & Preparing Management framework
Unit VI	Designing a harmonious infill in historic context

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- Maps/ book /Journal /article /research paper – intensive data collection and archival research from secondary sources.
- formulation of Inventories formats and primary research questionnaire and base maps
- primary surveys and field work mapping and inferences
- Analysis of cultural resources at multiple levels for their heritage potential and issues.

- Comparative case studies for urban heritage and their conservation policies.
- program feasibility of a design in context exercise within the delineated study area
- Design brief and area statement along with site analysis for a design proposal.

### **OUTCOME:**

Final output will be in the form of presentation based on sets of mappings & drawings along with a detailed project report including,

- Cultural resource identification, mapping and its value assessment through primary field survey.
- SWOT analysis and identification of parameters for conservation strategies.
- formulation of material library, design and planning vocabulary , decorative features and building crafts along with condition assessment at a Building level for design in context exercise

### **RECOMMENDED READINGS:**

- Studio site/ town based local history, research works and publications.
- Comparative case studies for urban heritage and their conservation policies.
- Sir Bernard Fieldon., (1990) *A Technical Manual*. INTACH –Delhi chapter
- Jukka Jokilehto, *A History of Architectural Conservation*.1986- PhD thesis, The University of York,England .
- Sir John Marshall, *Conservation Manual* (1923), A.S.I – British India.
- All International and National Charters by UNESCO

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<b>SUBJECT TITLE: ELECTIVE - II</b>				
Subject Code : <b>2019AC202</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Mark s</b>	
Theory Periods per week	02	Sessional	100	
Studio Periods per week	01	Viva/Oral	Nil	
<b>Total Contact Periods (60 min period) per week</b>	<b>03</b>	In-semester Examination	Nil	
		End-semester Examination	Nil	
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	

**COURSE OBJECTIVES:** Elective will introduce student to the complexities of urban situations

**COURSE CONTENT :** Individual college/institute may offer the students one or more topics, depending upon the availability of experts and resource material. The colleges will have the opportunity to focus on one or more of the following topics:

- 4. Urban Design**
- 5. City And Theory**
- 6. Urban Regeneration**

Detailed syllabus for all topics will be finalized by individual college/institute in consultation with expert faculty, considering the time and marks allotted to the subject.

**SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

Sessional works includes articles and book reviews, Report for critical study of urban conservation cases. Project report comprising of drawings, models (if desired) demonstrating the application of the knowledge gathered in studio proposal.

**OUTCOME:**

Students will learn to critically study the urban situations to understand the complexities involved in interventions at urban levels.

**RECOMMENDED READINGS:**

- Aldo Rossi (1984). *The Architecture of the City*: MIT Press. Massachusetts
- Gordon Cullen (1961) *Townscape* : Architecture Press. New York.
- Kevin Lynch (1960 ) *The Image of the City* : MIT Press. Massachusetts
- Research Articles on urban Morphology

<b>SUBJECT TITLE: HISTORY, THEORY AND CRITICISM</b>				
Subject Code : <b>2019AC203</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	
Theory Periods per week	02	Sessional	200	
Studio Periods per week	02	Viva/Oral	Nil	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>04</b>	In-semester Examination	Nil	
		End-semester Examination	Nil	
<b>Total Credits</b>	<b>04</b>	<b>Total Marks</b>	<b>200</b>	

#### **COURSE OBJECTIVES:**

- Objective of this course is to introduce students to different theories, philosophies that have significant contribution in the development of conservation practices.
- It will also make student familiar with regional history and evolution of architectural styles

#### **COURSE CONTENT:**

Unit I	Development of history
Unit II	Famous historians and various approaches to history
Unit III	Movements in art and architecture
Unit IV	Movements in philosophy and literature and its interpretation
Unit V	Study of architectural history of the region
Unit VI	Identification of vernacular styles

#### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- Minimum six assignments based on,
- Field study report comprising of drawings, models (if desired)– Study of Traditional and vernacular building typology
- Study of building crafts
- Book study report– Review of at least one book as suggested by the faculty

**OUTCOME:**

Students will become well versed with importance of theory in practice. They will also acquire the knowledge of regional history and heritage.

**RECOMMENDED READINGS:**

- John Ruskin (1849) reprinted 2012, *Seven Lamps of Architecture*, Dover Publication Inc., New York
- Ventury Robert (1966) *Complexities and contradiction in architecture*, The Museum of Modern art, New York.
- John Summerson (1963) *Classical Language of Architecture* MIT Press, Massachusetts.
- Hanno- Walter Kruft (1994) *A History of Architectural Theory* Princeton Architectural Press, New York.



<b>SUBJECT TITLE:</b> <b>CONSERVATION MANAGEMENT</b>				
Subject Code : <b>2019AC204</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	Nil	
Studio Periods per week	01	Viva/Oral	Nil	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>03</b>	In-semester Examination	30	
		End-semester Examination	70	150 min
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	

### **COURSE OBJECTIVES:**

- To induce the role of Management of cultural resources as an integral aspect of sustainability.
- As a practice of managing cultural heritage, this subject aims to explore systematic and methodical approaches and tools of management of cultural resource at various levels in various disciplines.
- It is a branch of cultural resources management (CRM), although it also draws on the practices of cultural conservation, restoration, museology, archaeology, history and architecture. It also highlights the various realms of management this discipline is entering into.

### **COURSE CONTENT:**

Unit I	Concept of Cultural Resources and Cultural resources management – a Paradigm shift
Unit II	Cultural Resource identification, Mapping and their heritage assessment.
Unit III	Conservation Management plans (CMPs) and tools of managements with integral fundamental concepts at various levels.
Unit IV	World heritage management and its frameworks of nomination, formulation of inscription & implementation with relevant case studies.
Unit V	Indian scenario of heritage management & ASI contribution in world heritage management - Indian case study, heritage tool kits at local governance level.
Unit VI	Emerging approaches like ITUC- Integrated Territorial Urban Conservation and its relevance to Indian scenario – Integrated planning and heritage management

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- book /Journal /article /research paper review writing
- tutorial / article writing
- Project – Formulation OF Managemt Framwork at town level in accordance to conservation studio-II- policies & strategies- seminar presentation on tools of management
- World Heritage Management and case studies relative to studio
- Field study – site visit of least one ongoing conservation project and an organization involved in management of conservation works. formulation of Management framework-
- Critical appreciation of an integrated Conservation management plan-Hampi

#### **OUTCOME:**

- Cultural resource identification, mapping and its value assessment through primary field survey.
- Developing understanding on different management approaches in conservation through trends relevant for Indian Context.
- Critical appreciation of Management aspects & tools through 8 live cases.
- Enhancing abilities to formulate different types of inventories, defect and condition mapping, damage assessment at a Building level.

#### **RECOMMENDED READINGS:**

- Roger Kain (1981) *Planning for conservation* St. Martins Press New York,
- Alan Dobby (1978) *Conservation and Planning* Hutchinson of London,
- Rahul Mehrotra, Gunter Nest, Sawant Sandhya (1994) *The Fort Precinct in Bombay – A proposal for Area conservation* Maxmueller Bhavan Mumbai.
- Management Plans of world heritage sites
- Intergrated Management case study of Hampi – world heritage site.

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<b>SUBJECT TITLE: RESEARCH - I</b>				
Subject Code : <b>2019AC205</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	Nil	
Studio Periods per week	01	Viva/Oral	Nil	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>03</b>	In-semester Examination	<b>30</b>	
		End-semester Examination	<b>70</b>	150 min
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	

**COURSE OBJECTIVES:** The objective of this subject is to introduce student to theoretical framework of research, techniques of research writing and research philosophy.

#### **COURSE CONTENT:**

Unit I	Introduction, significance, Types of Research, Various terms
Unit II	Research Methods, Research sample and methods of sampling, data types and methods of collection
Unit III	Aspects of research, literature review, conducting a research, writing reviews
Unit IV	Ethics in research
Unit V	Research Design- Research plan and research questions , tools and techniques of research , reference writing
Unit VI	Historical and qualitative research, quantitative research.

#### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

Minimum six assignments based on,

Field study – research on historic town

Book study – Article/ book review writing

Tutorial writing

**OUTCOME :** Equipping students for carrying out research and critically examining the research done by others.

#### **RECOMMENDED READINGS**

- Groat Linda and David Wang (2002) *Architectural research methods* John Wiley & sons New York.
- Kothari C.R. (2004) *Research Methodology, Methodology and Techniques* New Age International Publisher New Delhi.

<b>SUBJECT TITLE:</b> <b>STRUCTURAL CONSERVATION - II</b>				
Subject Code : <b>2019AC206</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	01	Sessional	100	
Studio Periods per week	01	Viva/Oral	Nil	
<b>Total Contact Periods ( 60 min period) per week</b>	<b>02</b>	In-semester Examination	Nil	
		End-semester Examination	Nil	
<b>Total Credits</b>	<b>02</b>	<b>Total Marks</b>	<b>100</b>	

### **COURSE OBJECTIVES:**

To equip students with technical know-how required for successful structural conservation. It will focus on traditional as well as contemporary methods and techniques used in structural interventions

### **COURSE CONTENT:**

Unit I	Principles of interventions
Unit II	Identification of problems and Identifying possible measures and choosing appropriate measures
Unit III	Structural interventions for different structural elements like arches, dome, vaults, columns, beams
Unit IV	Retrofitting and strengthening
Unit V	Preventive measures
Unit VI	Demonstration

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- Minimum six assignments based on,
- Field study – Study of a historic structure for structural assessment
- Book study – Case studies for interventions
- Project – Based on field study a detail project report of a structure studied including condition mapping and desired interventions

### **OUTCOME:**

Students will acquire skills to find appropriate remedial measures and solutions for strengthening and retrofitting of structure.

**RECOMMENDED READINGS:**

- James R. Benya, Donna J. Leba. (2011). *Lighting Retrofit & Relighting*. Wiley.
- A. R. Powys. (1981). *Repair of Ancient Buildings, Society for Protection of Ancient Buildings*. Society for the Protection of Ancient Building
- Poul Beckmann. (1995). *Structural Aspects of Building Conservation*. Mc Graw- Hill
- Jhon Marshall. (1923). *Conservation Manual: A handbook for the use of Archaeological Officers and others entrusted with the care of ancient monuments*. Calcutta: Superintendent Government Printing, Archaeological Survey of India

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**SAVITRIBAI PHULE PUNE UNIVERSITY**

**(FORMERLY UNIVERSITY OF PUNE)**

**SYLLABUS FOR**

**MASTERS IN ARCHITECTURE**

**M.ARCH. (ARCHITECTURAL CONSERVATION)**

**(To be implemented w.e.f. A.Y. 2019-20)**

**BOARD OF STUDIES IN ARCHITECTURE**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**S.Y.M.ARCH**  
**Architectural Conservation**

**Detailed Syllabus**

**SEM- III**

**DRAFT**

<b>SUBJECT TITLE: Conservation studio-III</b>				
<b>Subject Code : 2019AC301</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	300	NA
Studio Periods per week	08	Viva/Oral	100	NA
<b>Total Contact Periods ( 60 min period) per week</b>	<b>10</b>	In-semester Examination	NIL	NA
		End-semester Examination	NIL	NA
<b>Total Credits</b>	<b>10</b>	<b>Total Marks</b>	<b>400</b>	<b>NA</b>

### COURSE OBJECTIVES:

- The objective is to introduce the students to the identification of Cultural resources at a regional scale and interpret its heritage potential through the Cultural landscapes and Knowledge system approach.
- Conservation Studio Exercise will have interdisciplinary inputs, guidance and periodic reviews. Site studies, exploration of crucial areas of Cultural Landscape and heritage economics through assignments of theory subjects will be linked with the Studio.

### COURSE CONTENT:

<b>Unit</b>	<b>Content</b>
Unit I	Identification of Cultural Region, cultural resources shaping the region and its attributes
Unit II	Delineating the study area based on theories and concepts rooted in cultural geography.
Unit III	Mapping & Documenting various cultural resources shaping the region and conducting primary research and surveys by application of Historical layering method and many other methods from allied fields formulating mapping techniques of cultural resources shaping the geography to check the probability of shaping of a cultural landscape with multiple cultures.
Unit IV	Identification of heritage potential of cultural resources with a knowledge system approach.
Unit V	Identifying issues pertaining to heritage at multiple levels Statement of significance, classification & Conservation interventions within present system of governance & future development
Unit VI	Preparation of heritage management strategy. at regional level, knowledge system level, cultural resource level and its attribute level.

### SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

- Maps/ book /Journal /article /research paper – intensive data collection and archival research from secondary sources.
- Formulation of Inventories formats and primary research questionnaire and base maps
- Primary surveys and field work mapping and inferences
- Analysis of cultural resources at multiple levels for their heritage potential and issues.
- Comparative case studies for Cultural landscapes and their approaches.
- Feasibility of multidisciplinary comprehensive safeguarding measures and recommendations for conserving the cultural resources within the delineated study area
- Identification of knowledge systems within the cultural region in Indian context.



**OUTCOME:**

Studio work based on field studies and consecutive stages to be regularly critically reviewed and the final output will be in the form of presentation based on sets of mappings & drawings along with a detailed project report.

- Cultural resource identification, mapping and its value assessment through primary field survey.
- Analysis of knowledge systems and the attributes of cultural region.

**RECOMMENDED READINGS:**

- Studio region and culture based local history, research works and publications.
- Comparative case studies for cultural landscape cases.
- William m. Denevan , Kent Mathewson ,2009.Carl Sauer on culture and landscape -Readings and Commentaries.Louisiana State University Press
- Rana P. B. Singh ,2013. Heritage-scapes and Cultural Landscapes ,Shubhi Publications –New Delhi.
- Kaylene Fleming , Cultural landscape: a theoretical perspective .
- Amita Sinha ,2011, Landscapes in India: Forms And Meanings , Asian Educational Services- New Delhi.
- Nalini Thakur, Indian Cultural Landscapes.
- Cultural Landscape case-studies of Inscribed World Heritage sites.
- All International and National Charters by UNESCO

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<b>SUBJECT TITLE: Research II</b>				
<b>Subject Code : 2019AC302</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	100	NA
Studio Periods per week	01	Viva/Oral	Nil	NA
<b>Total Contact Periods ( 60 min period) per week</b>	<b>03</b>	In-semester Examination	Nil	NA
		End-semester Examination	Nil	NA
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	<b>NA</b>

**COURSE OBJECTIVES:**

The objective of this course is to formulate a methodical research on an unexplored aspect related to their dissertation project and to communicate it through technical writing. It aims to encourage students to apply the skills of technical writing and conduct a research exploring various aspects of traditional vernacular architecture and built heritage that will support the related studies.

**COURSE CONTENT:**

**Unit Content**

- Unit I The subject deals with selecting an appropriate topic from the field of Architectural Heritage conservation or allied disciplines, for the theoretical exploration related and supportive to the selected dissertation topic.
- Unit II The topic of the research paper could be selected in a such way that it could help to develop an appropriate methodology and research approach related to the Conservation Project to be taken up in semester-IV.

**SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

Research paper shall be prepared by each student based upon the topic approved by the institute in around 5000 words, in the format specified by the university. The paper has to adhere to the plagiarism norms as given by UGC and a plagiarism report will be attached as a part of the submission. A research seminar is to be conducted internally as the end of the term which shall be mandatory for internal evaluation.

**OUTCOME:**

Students at the end of the semester should be able to conduct independent research in the field of Heritage conservation and present it in the appropriate technical formats as required.

**RECOMMENDED READINGS:**

All books/ Journals/ Magazines/ unpublished thesis related to the topic selected by the individual student.

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<b>SUBJECT TITLE: Conservation Practices and Training</b>				
<b>Subject Code : 2019 AC303</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional (Course Sessional -50, Training portfolio- 100)	150	NA
Studio Periods per week	02	Viva/Oral	50	NA
<b>Total Contact Periods ( 60 min period) per week</b>	<b>04</b>	In-semester Examination	Nil	NA
		End-semester Examination	Nil	NA
<b>Total Credits</b>	<b>04</b>	<b>Total Marks</b>	<b>200</b>	<b>NA</b>

### **COURSE OBJECTIVES:**

To give an opportunity for learning and for development of skills related to practical aspects and current trends of the discipline of Architectural Conservation & Heritage, by working in a professional firm or organization imparting practical learning.

### **COURSE CONTENT:**

#### **Unit Content**

- Unit I Introduction to Professional practice – Ethics, code of conduct and liabilities as conservation architects, contracts and tenders. Professional fees, Role of various bodies and organizations like ASI, INTACH & qualified conservation professionals etc., professional procedures, office management, project development,
- Unit II Introduction to conservation projects & current practices, nature of projects, government agencies involved. Tendering process – introduction, preparation of draft notice, tender drawings, and tender documents and related stages.
- Unit III Dealing with the technical aspects of making of DPRs, Preparation of estimates for conservation work items- Specification writings, Preparations of BOQs, formulating Rate analysis, Measurement sheets and Abstract sheets based on field observations during condition mapping and assessments.
- Unit IV Contracting of conservation projects, agencies and expertise, trends and methodology. Exploring role of a Conservation architect in multi-disciplinary nature of works.
- Unit V Applying for conservation approval through sanctioning authorities. Like Heritage cell at local governance, heritage committees for and organizations for protected monuments etc. Approval processes subjective to different organizations, planning mechanisms and working structure associated with governmental organizations.
- Unit VI Overview of International, National, Regional Heritage cell, INTACH local & central Chapter, ASI Circle, and renowned conservation firms for their trends of conservation works and methodology based on successful examples. Preparation for entries of conservation projects for National and international Awards

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- Book /Journal /article /research paper review writing- for pre-field stage & On-situ Project Management.
- Exploring any traditional recipe for Specification writing exercise- for skilled work in conservation project based on office training.
- Preparation of Rate Analysis and estimates for conservation projects.
- DPRs Making and its various stages
- Seminar presentation- of work done in 40 days of Professional Practice. The Professional Training (40 full working days) is to be undertaken during intermediate time between II & III Semester. The Oral Assessment of the same will be held at the end of Semester III. The subject is included as core subject and will have both sessional and viva assessment. It involves working in a firm engaged in environmental architecture or planning related work in India or abroad. The Oral Assessment of the same will be held at the end of Semester III.

### **OUTCOME:**

- Final submission will include compilation of the work done during the training in the form of A3 report and in the form of notes/journals/assignments done during the studio in Semester III. All hard copies need to be submitted with the signature of the head and the stamp of the firm, at the time of appearing for the viva-voce. Specification writing and making estimates.
- Preparation of Rate analysis for conservation work items.
- Preparation of BOQs during condition mapping and assessment for tender document and tender drawings.
- Preparation of BOQs for working drawing, site visit reports for onsite- repairs and restorations.

### **RECOMMENDED READINGS:**

- PWD manuals of British presidencies on traditional materials and specifications
- Current PWD manuals for upgraded rates and units of measurements in material log books
- DSRs, CDPs for reference of conservation item rates and specifications.
- ICRRM manuals for special conservation works.
- World Heritage Management guidelines by Sir Bernard Feilden
- Websites of various professional organization associated with the Heritage works

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<b>SUBJECT TITLE: Cultural Landscape</b>				
<b>Subject Code : 2019 AC304</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	Nil	NA
Studio Periods per week	01	Viva/Oral	Nil	NA
<b>Total Contact Periods ( 60 min period) per week</b>	<b>03</b>	In-semester Examination	30	NA
		End-semester Examination	70	150 minutes
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	<b>NA</b>

### COURSE OBJECTIVES:

- To orient student to the concept of Cultural Landscapes – from background till current trends of approaches.
- Introduce the students to the role of various Theories & philosophies in formulation of techniques in defining a cultural region and interpreting cultural landscapes.
- To orient students to the Indian context of interpreting culture and forms and meaning of landscapes through sacred geography.

### COURSE CONTENT:

#### Unit Content

- Unit I Concept of Cultural Landscapes – from Cultural Geography, Cultural Anthropology, Culture through sociology, Natural ecology and environments with human habitats -formulating current trends of approaches.
- Unit II 20<sup>th</sup> and 21<sup>st</sup> c. various Theories, philosophies, personalities who have contributed in formulation of techniques in defining a cultural region and interpreting cultural landscapes.eg. Approaches by UNESCO, US, Australia
- Unit III Exploring Indian context of interpreting culture and forms and meaning of landscapes formulating a distinct form of Indian Cultural Landscapes.- The Nalini Thakurs approach of Knowledge system for Indian Cultural Landscapes.
- Unit IV Identification of Cultural Region, cultural resources shaping the region, application of Historical layering method and many other methods from allied fields for documentation and mapping techniques of cultural resources shaping the cultural landscapes - to be linked with Conservation Studio-III
- Unit V Exploring the Concepts of Historic Gardens, across cultures around the globe – smallest unit of designed landscapes representing cultures and techniques for their safeguarding.
- Unit VI Introduction to National and International charters, Approaches and Organizational setup, - World Heritage management of Cultural Landscapes. understanding Heritage Legislations and its reaches with respect to cultural resource management in Indian Context

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- book /Journal /article /research paper review writing
- tutorial / article writing
- seminar presentation
- thematic heritage mapping and survey techniques based on studio
- Heritage potential and value assessment based on studio.
- Critical appreciation of a conservation project/ WHS case studies.

### **OUTCOME:**

- Catering to theoretical underpinning for studio based application.
- Cultural Region mapping and identification of Cultural resources and its value assessment through primary field survey in Conservation Studio-III.
- Developing understanding on different approaches in conservation through trends for Indian Context and its application in Conservation Studio-III.
- Critical appreciation of World Heritage inscribed cultural landscape cases.
- Enhancing abilities to classify cultural systems and related cultural resources and their management.

### **RECOMMENDED READINGS:**

- William m. Denevan , Kent Mathewson ,2009.Carl Sauer on culture and landscape -Readings and Commentaries.Louisiana State University Press
- Rana P. B. Singh ,2013. Heritage-scapes and Cultural Landscapes ,Shubhi Publications –New Delhi.
- Kaylene Fleming , Cultural landscape: a theoretical perspective .
- Amita Sinha ,2011, Landscapes in India: Forms And Meanings , Asian Educational Services- New Delhi.
- Nalini Thakur, Indian Cultural Landscapes.
- Cultural Landscape case-studies of Inscribed World Heritage sites.
- All International and National Charters by UNESCO

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<b>SUBJECT TITLE: Conservation Legislation</b>				
<b>Subject Code : 2019AC305</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	Nil	NA
Studio Periods per week	01	Viva/Oral	Nil	NA
<b>Total Contact Periods ( 60 min period) per week</b>	<b>03</b>	In-semester Examination	30	NA
		End-semester Examination	70	150 minutes
<b>Total Credits</b>	<b>03</b>	<b>Total Marks</b>	<b>100</b>	

### **COURSE OBJECTIVES:**

Objective of this course is to introduce students to various legal aspects and legislation pertaining heritage conservation.

### **COURSE CONTENT:**

Unit I	Origin of Law and its development-Elements of Legislation, Introduction to Indian Constitution, 73 <sup>rd</sup> and 74 <sup>th</sup> amendment.
Unit II	Land related legislation, MRTP act, Rent Control Act. Land reforms
Unit III	Heritage related legislation including Antiquities and Art Treasures Act,1972, AMASR, Norms by Local Governing bodies,
Unit IV	Relevant Environment related legislation
Unit V	Review of legal systems across the globe
Unit VI	Various schemes by Governing authorities, Right to Information, Various statutory bodies working in conservation.

### **SUBMISSION REQUIREMENTS:**

Minimum 8 tutorials that will include critical review of existing legislation, case studies, discussions

### **OUTCOME:**

Students will become well versed with legal systems pertaining heritage conservation; its scope.

### **RECOMMENDED READINGS:**

- Government Publications on MRTP Act, Land Acquisition Act & Rent Act
- Riberio E.F.N.(1989) 'The Law and the conservation of Man-made heritage in India' INTACH, New Delhi.
- Chainani Shyam (2009) 'Legislative and Organizational Policies for India' INTACH, NewDelhi.
- Tripathi Alok (2007) ' Ancient Monuments and Archaeological Sites and Remains Act 1958: with rules, amendments, Notifications and Orders' Sudeep Prakashan, New Delhi

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<b>SUBJECT TITLE: Heritage Risk Assessment and Mitigation.</b>				
<b>Subject Code : 2019 AC306</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	01	Sessional	100	NA
Studio Periods per week	01	Viva/Oral	Nil	NA
<b>Total Contact Periods ( 60 min period) per week</b>	<b>02</b>	In-semester Examination	Nil	NA
		End-semester Examination	Nil	NA
<b>Total Credits</b>	<b>02</b>	<b>Total Marks</b>	<b>100</b>	<b>NA</b>

### **COURSE OBJECTIVES:**

This subject will equip student with required technical know-how for safeguarding heritage at risk, during a disaster and post a disaster dealing with the aftermath.

### **COURSE CONTENT:**

<b>Unit</b>	<b>Content</b>
Unit I	Understanding different Types of risks for heritage – Natural and Manmade
Unit II	Exploring Different Holistic approaches for Assessing magnitude of risk – International and National
Unit III	Heritage impact assessment- process, methods, primary field surveys , recommendations-based on cases.
Unit IV	Mitigation measures – process, methods, priority aspects, recommendation – based on cases.
Unit V	Digital tools and modern applications for assessment and mitigation
Unit VI	Formulation of Disaster management plan – Based on conservation studio.

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- book /Journal /article /research paper review writing
- tutorial / article writing
- seminar presentation
- Critical appreciation of relevant case studies

### **OUTCOME:**

- Formulation OF disaster management plan for heritage site
- Critical appreciation of different types of cases representing types of risks and Disasters- World Heritage inscribed cases for disaster management plans and Mitigation measures for protected sites.
- Enhancing abilities to formulate Heritage impact assessment and environment impact assessment for cultural resources and their disaster management and risk preparedness programs.

### **RECOMMENDED READINGS:**

- ICCROM (year)A Guide to Risk Management of cultural Heritage.(publisher,place)
- Guidance on Heritage Impact Assessments for Cultural World Heritage Properties by ICOMOS



- Disaster Risk Management of Cultural Heritage in Urban Areas- A Training Guide by ICCROM
- Handbook on seismic retrofit of Buildings by CPWD, Chennai
- Between two earthquakes – cultural property in seismic zones by Bernald Fieldon
- Documents and Publications- <http://icorp.icomos.org/index.php/documents/>

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# Detailed Syllabus

## SEM- IV

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<b>SUBJECT TITLE: Conservation Project</b>				
Subject Code : 2019AC401				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	04	Sessional	600	NA
Studio Periods per week	16	Viva/Oral	200	NA
<b>Total Contact Periods (60 min period) per week</b>	<b>20</b>	In-semester Examination	Nil	NA
		End-semester Examination	Nil	NA
<b>Total Credits</b>	<b>20</b>	<b>Total Marks</b>	<b>800</b>	<b>NA</b>

### **COURSE OBJECTIVES:**

The objective of this subject is to enable student to conceptualize and develop a conservation project independently to come up with a conservation proposal with holistic approach for the same.

### **COURSE CONTENT:**

<b>Unit</b>	<b>Content</b>
I	Formulation of a Conservation project. Student will choose a feasible and potential case and work out conservation project of his/her interest.
II	Synopsis & Report writing –structuring the project Methodology.
III	Background Data collection & Archival Research
IV	Identification of Cultural resources -Primary Data generation- Field Surveys and mapping
V	Identification of heritage potential & Threats, Formulating relevant case for safeguarding the Heritage
VI	Devising Conservation Proposal

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

- The student will be assessed periodically according to relevant progressive stages of their chosen project
- final output will be in the form of proposal report- Detailed project report & a set of composed drawings and sheets relevant for the project

### **OUTCOME:**

- A report, (Not less than 10000 words) as per prescribed format is to be generated, supported with required documentation on the chosen topic is expected as a final product.

### **RECOMMENDED READINGS:**

Secondary, tertiary resources & literature relevant to chosen project.

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SUBJECT TITLE: <b>Elective -III</b>				
Subject Code : <b>2019AC402</b>				
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	<b>Marks</b>	<b>Duration</b>
Theory Periods per week	02	Sessional	200	NA
Studio Periods per week	03	Viva/Oral	Nil	NA
<b>Total Contact Periods (60 min period) per week</b>	<b>05</b>	In-semester Examination	Nil	NA
		End-semester Examination	Nil	NA
<b>Total Credits</b>	<b>05</b>	<b>Total Marks</b>	<b>200</b>	<b>NA</b>

### **COURSE OBJECTIVES:**

To expose the students in interdisciplinary area of their interest and impart them with theoretical knowledge and practical understanding of the subject offered in the elective.

### **COURSE CONTENT:**

Individual college may offer the students one or more topics, depending upon the availability of experts and resource material. The colleges will have the opportunity and choice to focus on one or more of the topics. Being an open interdisciplinary elective the topics offered for the elective shall be outside the core knowledge domain of Heritage and conservation. The open elective would be offered by departments/schools other than architecture

In case the topics offered cannot be conducted the students can take any one of the topics offered in either elective I or elective II but not opted for by the students earlier.

Detailed syllabus for the topics will be finalized by individual college in consultation with expert faculty, considering the time and marks allotted to the subject.

### **SUBMISSION REQUIREMENT FOR SESSIONAL WORK:**

The mode of teaching learning shall be decided by the experts and the department where the elective is offered. The final outcome and submission shall be in form of report / journal/ model/ or any other form suitable for the topic studied.

### **OUTCOME:**

Students at the end of the semester should have learnt / understood the broad idea and concept inherent in the subject as well as its application and importance in the field of environment. Enhancing the abilities to classify the cultural systems and related cultural resources and their management.

### **RECOMMENDED READINGS:**

As per the topic offered.

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