

# **M.ARCH SYLLABUS**

# **LANDSCAPE**

# **2020-21**

**Programme Code: SAP0101**

**Duration- 2 Years Full Time**

## **Program and Course Structure**

- A. General Guideline***
- B. Program Structure Template***
- C. Course Templates***
- D. Assessment and Attainment of PO's and CO's.***

## **1. Standard Structure of the Program at University Level**

---

### **1.1 Vision, Mission and Core Values of the University**

---

#### **Vision of the University**

**To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.**

#### **Mission of the University**

- 1. Transformative educational experience**
- 2. Enrichment by educational initiatives that encourage global outlook**
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship**
- 4. Seeking beyond boundaries**

#### **Core Values**

- Integrity**
- Leadership**
- Diversity**
- Community**

## 1.2 Vision and Mission of the School

---

### Vision of the School

**To be amongst the top institutes in India imparting quality education and professional skills to the students to emerge as architects of global caliber and thus the society in large.**

### Mission of the School

- 1. To create and sustain a stimulating and responsive academic inclusive environment.**
- 2. To regularly enhance the teaching contents & techniques in keeping with current and future trends.**
- 3. To provide a competitive and career oriented programme.**
- 4. To encourage students to be socially responsive and responsible architects.**

### Core Values

- Critical Thinking and Observation**
- Analytical Skills**
- Creativity**
- Integrity to uphold authentic building traditions and architecture principles**

### **1.3 Programme Educational Objectives (PEO)**

---

- PEO1 : To equip the students with the basic knowledge about the evolution of architecture as a distinct body of knowledge.
- PEO2 : To sensitize the students about the specialized components within the field of architecture that are required to be integrated for a successful professional practice.
- PEO3 : To familiarize the students with various levels of complexities of architectural design .
- PEO4 : To ensure awareness amongst the students regarding architectural design as a functions of natural & cultural context.
- PEO5 : To ensure familiarity amongst students about the current techniques and their validity related to good architecture
- PEO6 : To strengthen entrepreneurial and innovation culture among students.

#### **1.3.3 Program Outcomes (PO's)**

---

PO1: Architectural Knowledge

PO2: Critical thinking and Analysis

PO3: Problem solving and Design Development Skills

PO4: Communication and Display

PO5: Environment and sustainability

PO6: Professional Ethics

**SHARDA UNIVERSITY**  
**SCHOOL OF ARCHITECTURE AND PLANNING**  
**BATCH : 2020-22**  
**Program: MASTER OF ARCHITECTURE (Landscape)**  
**TERM : I**  
**Session : 2020-21**

S.No.	Subject Code	Subjects	L	P	S	Credits	Remarks
<b>Jury Subjects</b>							
1	MLJ 101	Landscape Studio – I	2	2	6	12	Compulsory
2	MLJ 102	Research Methodology I	4	0	0	4	Compulsory
3	MLJ 103	Theory / History of Landscape Architecture I	2	0	0	2	Compulsory
4	MLJ 104	Site Planning and Landscape Engineering I	1	2	0	2	Compulsory
5	MLJ 105	Field Study of Plants	2	0	0	2	Compulsory
<b>Total Credits</b>						22	

**SHARDA UNIVERSITY**  
**SCHOOL OF ARCHITECTURE AND PLANNING**  
**BATCH : 2020-22**  
**Program: MASTER OF ARCHITECTURE (Landscape)**  
**TERM : II**

S.No.	Subject Code	Subjects	L	P	S	Credits	Remarks
<b>Jury Subjects</b>							
1	MLJ 111	Landscape Studio- II	2	2	6	12	Compulsory
2	MLJ 112	Research Methodology II	4	0	0	4	Compulsory
3	MLJ 113	Theory / History of Landscape Architecture II	0	2	2	4	Compulsory
4	MLJ 114	Site Planning and Landscape Engineering II	1	2	0	2	Compulsory
5	MLJ 115	Ecology / Landscape Planning	2	0	0	2	Compulsory
<b>Total Credits</b>						24	

**SHARDA UNIVERSITY**  
**SCHOOL OF ARCHITECTURE AND PLANNING**  
**BATCH : 2020-22**  
**Program: MASTER OF ARCHITECTURE (Landscape)**  
**TERM : III**

S.No.	Subject Code	Subjects	L	P	S	Credits	Remarks
<b>Jury Subjects</b>							
1	MLJ 201	Landscape Studio -III	2	2	6	12	Compulsory
2	MLJ 202	Dissertation I	2	2	2	5	Compulsory
3	MLJ 203	Construction / Working Drawing Documentation	2	2	0	3	Compulsory
<b>Theory Subjects</b>							
4	MLT 204	GIS Primer	1	2	0	2	Elective
<b>Total Credits</b>						<b>22</b>	



**SHARDA UNIVERSITY**  
**SCHOOL OF ARCHITECTURE AND PLANNING**  
**BATCH : 2020-22**  
**Program: MASTER OF ARCHITECTURE (Landscape)**  
**TERM : IV**

S.No.	Subject Code	Subjects	L	T	P	Credits	Remarks
<b>Jury Subjects</b>							
1	MLJ 211	Thesis	0	0	12	18	Compulsory
2	MLJ 212	Dissertation II	0	4	0	2	Compulsory
<b>Theory Subjects</b>							
3	MLT 213	Elective I:	2	0	0	2	Elective
<b>Total Credits</b>						<b>22</b>	

**MAL 101- Landscape Studio -I**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.ARCH</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: - General</b>		<b>Semester: 1</b>
<b>1</b>	<b>Course Code</b>	<b>MAL 101</b>
<b>2</b>	<b>Course Title</b>	<b>Landscape Studio-I</b>
<b>3</b>	<b>Credits</b>	<b>12</b>
<b>4</b>	<b>Contact Hours (L-T-P)</b>	<b>2-2-6</b>
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> <li>• Acquire a comprehensive base of knowledge required for the practice of landscape architecture.</li> <li>• Develop awareness in the physical context about implications of limited sources in design decision making.</li> </ul>
<b>6</b>	<b>Course Outcomes</b>	CO1:To understand readings in Landscape Architecture CO2:To explore exercises in Art, Architecture & Landscape CO3:Urban and Rural Landscape appraisal CO4:To analyse Landscape and Site Planning for medium sized sites (upto 2 Ha) CO5:To create Landscape Design of small recreational or civic spaces.
<b>7</b>	<b>Course Description</b>	To understand the various landscape design techniques and acquire a practical knowledge of landscape.
	<b>Outline syllabus</b>	

	<b>Unit 1</b>	<b>Art, architecture &amp; landscape</b>		
		a. Readings in Landscape Architecture b. Introductory exercises in Art, Architecture & Landscape c. Urban and Rural Landscape appraisal		
	<b>Unit 2</b>	<b>Recreational and civic spaces</b>		
		a. Landscape Analysis b. Site Planning for medium sized sites (up to 2 Hectares) c. Landscape Design of small recreational or civic spaces.		
	<b>Unit 3</b>	<b>PS-01</b>		
		a. contain concept plan b. site analysis, case study c. plant propagation		
	<b>Unit 4</b>	<b>PS-02</b>		
		A .Consist concept plan, plantation plan, b. electrical plan, furniture layout, material layout c. modal and 3d rendered views.		
	<b>Unit 5</b>	<b>Professional communication</b>		
		a. Professional communication: Specific and focused exercises to develop language skills in verbal  b. written communication on subjects related to design  c. art and aesthetics and urban and rural environment.		
	<b>Mode of examination</b>	Theory		
	<b>Weightage Distribution</b>	<b>CA</b>	<b>MTE</b>	<b>ETE</b>
		<b>50%</b>	<b>---</b>	<b>50%</b>
	<b>Textbooks</b>	<b>Reference-Books</b>		
		1. Breen Ann & Rigby Dick: New Waterfront: A Worldwide Urban Success Store. Thames & Hudson		

	<ol style="list-style-type: none"> <li>2. Panich &amp; Trulsson: Desert Southwest Gardens.</li> <li>3. Lyall Sutherland: Designing The New Landscape. London, Thomas &amp; Hudson, 1997.</li> <li>4. Urbanism Journal</li> <li>5. Time Saver Standards for Landscape Architecture, Charles W Harris and Nicholas T Dine McGraw – Hill International Edition, Arch. Series</li> <li>6. A Pattern Language By Alexander Christopher</li> <li>7. Turner Tom: City as Landscape. E&amp;Pn Spon Anlmpint of Champman &amp; H</li> <li>8. Urbanismo : Urban Planning Vol.2. Axis Books, Spain,</li> <li>9. Urbanismo: Road Systems Vol.3. Axis Books, Spain,</li> <li>10. Urbanismo: Parks, Vol.4 Axis Books, Spain,</li> <li>11. Urbanismo : Squares, Vol. 5. Axis Books, Spain</li> <li>12. Broto Carles : Urbanism. Links Internatiional,</li> <li>13. Kawaguchi Yoko : Urban Environment Design 5. Korea. Jeong, Kwang-Young, 2003.</li> <li>14. Residential Landscape By T E Walker</li> <li>15. Charver Francisco Asensio : Environmental Restortation Landscape. Arco Colour Collection,</li> <li>16. Charver Mc Clenon : Landscape Planning For Energy Conservation</li> <li>17. Cho... Michael : Green Architecture. American Inst. of Rch. Press, Washington</li> <li>18. Pacanek Victor: Green Imperative Ecology &amp; Ethics in Design.</li> <li>19. Wale Robert &amp; Brenda: Green Architecture Thames And Hudson</li> <li>20. Man's Role in Changing the face of earth, thomas, William L and others, University of chicago Press, Chicago</li> <li>21. Silent Spring By Carson Rachel</li> <li>22. Only one earth by Barbara Ward, Andre Deutsch Ltd., London</li> <li>23. Grey World, Green Heart, Robert L Thayer, John Wiley and Sons Inc. Ny</li> <li>24. Gardens For The Future, Cooper Guy, Conran Octopus, London</li> <li>25. Environmental Scienfce – Earth As A Living Planet Second Ed. University of California, Santa Barbara.</li> <li>26. Mastaedi Arain : Landscape Design Today. Spain. Carles Broto &amp; Josey Maria,</li> <li>27. Building And Landscape, Andersson, Sven Ingvar, Kobenhavn K, Danish Academy</li> <li>28. Hans Dieter: New Landscape Architecture. Ernst &amp; Sohn,</li> <li>29. Landscape Journal, Basel, Munchen and Birkhauser</li> <li>30. Time Saver Standards For Landscape Architecture, Charles W Harris and Nicholas T Dine McGraw – Hill International Edition, Arch.</li> </ol>
--	---

	<p>Series</p> <p>31. Preserving Modern Landscape Architecture, Papers From The Wave Hill, National Park Service Conference Landscape Transformed, Academy Editins, 1996</p> <p>32. Saver Standsrds For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series</p> <p>33. John O: Landscape Architecture Ed. 2nd Mcgraw Hill Inc, New York</p> <p>34. Baker H: A Dictionary of Landscape Architect. University of New Maxico Press Albu,</p> <p>35. Introduction To Landscape Architecture By Laurie Michel, Elsevier Science Publishing Company, Ny</p> <p>36. Landscape : Pattern Perception and Processes, Bell Simon, E And Fn Spon, London</p> <p>37. of the City, Kevin Lynch, Mit Press, London</p> <p>38. Thomas C: Land Form Designs PD A Publication,</p> <p>39. Francisco A: Landscape Architecture The World. Atricum International,</p> <p>40. Francisco A: World of Landscape Architects: World of Environmental Design.</p> <p>41. Francisco A: Elements of Landscape, World of Environment. Printed In Spain</p> <p>42. Grant W: Landscape Graphics. 1987</p> <p>43. Studies in Landscape Design By Geoffrey Jellicoe</p> <p>44. The Experience of Landscape By Jay Appleton</p> <p>45. Dictionary of Landscape Architecture, Baker H Marrow, Asla</p>
--	---

**MLJ 102: RESEARCH METHODOLOGY-1**

<b>School: SAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: Landscape</b>		<b>Semester: I</b>
<b>1</b>	<b>Course Code</b>	MLJ 102
<b>2</b>	<b>Course Title</b>	<b>Research Methodology-1</b>
<b>3</b>	<b>Credits</b>	4
<b>4</b>	<b>Contact Hours (L-P-S)</b>	4-0-0
<b>Course Status</b>		<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> <li>• define the necessity of appropriate research</li> <li>• understand with the methods of conducting research</li> <li>• know the technical writing</li> </ul>
<b>6</b>	<b>Course Outcomes</b>	CO1: to recognize the subjective and objective aspects of research CO2: to identify objectives and working out methodologies CO3: to relate to and analyse the structure of a research paper CO4: to compose the research in a clear and concise format easily accessible to a range of reader
<b>7</b>	<b>Course Description</b>	The aim of this course is to prepare the students to do research in the field of architecture. They are familiarized with academic writing standards and ethical aspects of academic research.
<b>8</b>	<b>Outline syllabus</b>	
	<b>Unit 1</b>	<b>Foundations of Research</b>
	<b>1a</b>	Meaning, Motivation, Utility of research in architecture
	<b>1b</b>	Objective and characteristics of research

1c	Research and scientific method
<b>Unit 2</b>	<b>Types of Research</b>
2a	Descriptive vs. Analytical Research
2b	Applied vs. Fundamental Research
2c	Strengths and weaknesses of different methods
<b>Unit 3</b>	<b>Tools and Techniques</b>
3a	Used for collecting data (observational studies, surveys, interviews) and analysing data.
3b	Multivariate analysis and software applications) for different research methods
3c	Software for paper formatting, Software for detection of Plagiarism
<b>Unit 4</b>	<b>Literature Review</b>
4a	Need and process of literature review
4b	Style of referencing and bibliography
4c	Literature review writing
<b>Unit 5</b>	<b>Citation methods and rules</b>
5a	Foot note, text note, end note
5b	Bibliography

<b>5c</b>	Citation rules: MLA, APA, Chicago, Blue Book, OSCOLA		
<b>Mode of examination</b>	<b>Jury</b>		
<b>Weightage Distribution</b>	<b>CA</b>	<b>MTE</b>	<b>ETE</b>
	50%	-	50%
<b>Text book/s*</b>	<ul style="list-style-type: none"> <li>• Ross, R., “Research: An Introduction”, Barnes and Noble Books.</li> <li>• Khanzode, V. V., “Research Methodology – Techniques and Trends”, APH Publishing.</li> <li>• Kothari, C. R., “Research Methodology – Methods and Techniques”, New Age International.</li> <li>• Knight, A. and Ruddock, L., “Advanced Research Methods in Built Environment”, John Wiley &amp; Sons.</li> </ul>		
<b>Other References</b>			



**MLJ 103 – Theory/ History of Landscape Architecture -I**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: Landscape</b>		<b>Semester: I</b>
<b>1</b>	<b>Course Code</b>	<b>MLJ 103</b>
<b>2</b>	<b>Course Title</b>	<b>Theory/ History of Landscape Architecture</b>
<b>3</b>	<b>Credits</b>	<b>2</b>
<b>4</b>	<b>Contact Hours (L-P-S)</b>	<b>2-0-0</b>
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	<p>Understand the historic landscapes and garden design.</p> <p>Differentiate between various garden styles in landscape architecture and its evolution through history.</p> <p>Demonstrate the various landscape architecture features in respect of different styles.</p>
<b>6</b>	<b>Course Outcomes</b>	<p>CO1: Examine the history of evolution landscape architecture.</p> <p>CO2: Discuss the different garden styles and its evolution through time.</p> <p>CO3: Criticize and classify the urban landscape philosophies.</p> <p>CO4: Evaluate Cultural Landscape and historic landscapes.</p>
<b>7</b>	<b>Course Description</b>	<p>This course is designed to develop an understanding about landscape architecture and its relationship through historic time. The course looks into various garden styles. The idea of cultural landscapes and historic landscapes is introduced in theory.</p>

<b>8</b>	<b>Outline syllabus</b>	
	<b>Unit 1</b>	GREEK – ROMAN
		<ul style="list-style-type: none"> <li>a. Ancient Greek and Roman landscapes: Complexes and Gardens</li> <li>b. Roman Landscape: Peri-style gardens, Houses – Villas, Hippodrome Gardens, Theatres etc.</li> <li>c. Greek Landscape: Ancient Agora, Temples etc. and its landscape sitting.</li> </ul>
	<b>Unit 2</b>	PERSIAN – ISLAMIC
		<ul style="list-style-type: none"> <li>a. Persian Landscape: Aesthetics and Spirituality.</li> <li>b. Origin: Gardens of Isfahan, Shiraz etc.</li> <li>c. Indian Context: Mughal Gardens.</li> </ul>
	<b>Unit 3</b>	CHINESE - JAPANESE
		<ul style="list-style-type: none"> <li>a. Concept of harmony between Man and nature.</li> <li>b. Chinese Landscape: Miniature landscape with water pavilions, courtyards etc.</li> <li>c. Japanese Landscape: Aesthetics and philosophies, garden elements.</li> </ul>
	<b>Unit 4</b>	ITALIAN – FRENCH RENAISSANCE
		<ul style="list-style-type: none"> <li>a. Italian Renaissance Gardens: Philosophy and the prominent elements.</li> <li>b. French Gardens: Philosophy and the features.</li> <li>c. Gardens from Rome , Tuscany , Paris etc.</li> </ul>
	<b>Unit 5</b>	PICTURESQUE & ENGLISH
		<ul style="list-style-type: none"> <li>a. Picturesque landscapes and Typology.</li> <li>b. English gardens and its evolution.</li> </ul>

		c. Colonial landscape and its influence in India.		
	<b>Mode of examination</b>	<b>Jury</b>		
	<b>Weightage Distribution</b>	<b>CA</b>		<b>ETE</b>
		<b>50%</b>		<b>50%</b>
	Text book/s*	Design With Nature - Ian L. McHarg Landscape Architectural Graphic Standards - Leonard J. Hopper The Planting Design Handbook- by Nick Robinson Landscape Graphics - Grant Reid Trees of Delhi by Pradip Krishen		
	Other References			

**MLJ 104 – SITE PLANNING AND LANDSCAPE ENGINEERING -1**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: Landscape</b>		<b>Semester: I</b>
<b>1</b>	<b>Course Code</b>	<b>MLJ 104</b>
<b>2</b>	<b>Course Title</b>	<b>SITE PLANNING AND LANDSCAPE ENGINEERING</b>
<b>3</b>	<b>Credits</b>	<b>2</b>
<b>4</b>	<b>Contact Hours (L-P-S)</b>	<b>1-2-0</b>
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	<ol style="list-style-type: none"> <li>1. Acquire a comprehensive base of knowledge required for the practice of landscape architecture site planning.</li> <li>2. Develop awareness in the physical context about implications of limited sources in design decision making.</li> <li>3. To develop understanding about circulation principles of developing private and public areas.</li> <li>4. To familiarize students with landscape elements, lighting, furniture and develop connection between them.</li> <li>5. To develop the knowledge of designing of any sport ground.</li> </ol>
<b>6</b>	<b>Course Outcomes</b>	CO1 Explain the importance of topographical survey related to site planning. CO2 To analyse and distinguish the barriers of site planning. CO3 To apply and establish relationship between all the element while designing public and private spaces. CO4 To summarise the problems and issues and identify possible solutions for different typologies

7	<b>Course Description</b>	This course would introduce the students to the basics of landscape site planning. It would enable the student to develop an understanding of landscape design with appropriate site planning and its application.
8	<b>Outline syllabus</b>	
	<b>Unit 1</b>	<b>Introduction of site planning, types and methodology</b>
		<p>a. Site planning process and its significance; establishing relationship between site characteristics and design requirements. Inventory, documentation and site planning checklist.</p> <p>b. Site Survey and Appraisal; topographic surveys and their methodology, visualising landforms.</p> <p>c. Understanding contours and their characteristics, graphical representation, deriving contours by interpolation.</p>
	<b>Unit 2</b>	<b>Earthform Grading</b>
		<p>a. Earthform Grading; symbols and annotations,</p> <p>b. Basic grading principles, grading terraces, grading of roads across/along contours</p> <p>c. Basics of road alignment (horizontal and vertical)</p>
	<b>Unit 3</b>	<b>Surface drainage, earthwork and Grading</b>
		<p>a. Surface Drainage: Site planning for efficient drainage; understanding drainage pattern and watershed area, calculation of surface runoff, determination of catchments area and discharge rate; types of drainage systems, design of drainage elements: swales and culverts etc. Sub surface drainage planning.</p> <p>b. Planning, grading and drainage of sports fields.</p> <p>c. Earthworks cut and fill processes, volume computations.</p>
	<b>Unit 4</b>	<b>different type of circulation, materials, lighting and street furniture</b>

		<p>a. Landscape Construction: Factors in relation to systems, structures and materials for: Circulation: Roads and Parking, paths and plazas. Level Change: Wall, steps and ramps Planting: Planters, beds, edges and terraces.</p> <p>b. Landscape simulation and site utilities: Basic planning and understanding of principles for: External lighting; types of fixtures and their use in varying situations.</p> <p>c. . Street furniture / site furnishings</p>		
	<b>Unit 5</b>	<b>Understand landscape services and drawings</b>		
		<p>a. Overall consideration of external electrical, plumbing co-ordination vis-à-vis routing and interface with landscape elements.</p> <p>b. Landscape working drawings: Format and logical representation of information.</p> <p>c. Overall organization of design drawings and data as respective package with relevant cross- referencing.</p>		
	<b>Mode of examination</b>	<b>Jury</b>		
	<b>Weightage Distribution</b>	<b>CA</b>		<b>ETE</b>
		<b>50%</b>		<b>50%</b>
	Text book/s*	<ol style="list-style-type: none"> <li>1. Randhawa M S : Flowering Trees. National Book Trust, New Delhi</li> <li>2. Santapau H: Common Trees. India The Land And The People</li> <li>3. Mukherjee Pippa : Nature Guides, Common Trees of India. Worldwide Fund For Nature, India.</li> <li>4. Virginie &amp; Elbert George A : Foliage Plants For Decorating Indoors. Timber Press,</li> <li>5. Cloustan Brian : Landscape Design With Plants Ed. 2. Heinemann Newnes Oxford.</li> <li>6. Planting In Paved Area By Timothy Cochrane</li> <li>7. Cloustan Brian: Landscape Design with plants Ed. 2. Heinemann newnes Oxford.</li> <li>8. Tree Planting By Brenda Colvin</li> <li>9. Environmental Science – Earth as a living planet second Ed. University of California, Santa Barbara</li> <li>10. Cerver Francisco A: World of Landscape Architects: World of Environmental Design</li> <li>11. Cever Francisco A: Elements of Landscape,World of Environment. Printed In Spain</li> </ol>		

**MLJ 105: FIELD STUDY OF PLANTS**


---

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch:</b>		<b>Semester: 1</b>
1	Course Code	MLJ- 105
2	Course Title	Field study of plants
3	Credits	2
4	Contact Hours (L-P-S)	2-0-0
	Course Status	Compulsory
5	Course Objective	To develop an understanding of the plant material in Landscape Design. Examine the characteristics of Plants with reference to the plant material in design. Field trips with experts are required to identify the specific characteristics of the plants. Students are required to prepare a herbarium.
6	Course Outcomes	<ol style="list-style-type: none"> <li>1. Identify on-sight (scientific names, correctly spelled) many of the common, native and naturalized plants.</li> <li>2. Identify an unknown taxon using a taxonomic key and specimen comparisons.</li> <li>3. Identify, on-sight or using a hand-lens or dissecting scope, 10-20 angiosperm families.</li> <li>4. Learn how to properly collect, document, and process (press, dry, label, mount) a plant from the field. Toward this, each of you will prepare a collection of plants, pressed, dried, labeled, and mounted.</li> <li>5. Properly use the collections of the herbarium.</li> <li>6. Learn the major plant communities/vegetation regions of our area.</li> </ol>
7	Course Description	<p>This course is designed to acquire the basic knowledge and skills of plant taxonomy, native plant identification, and plant community assessment.</p> <p>The primary objectives of this course are both to learn the native and naturalized vascular plant species of our area and to learn how to know these plants. Thus, the basic training will go beyond simply memorizing names and will encompass the four components of taxonomy: description, identification, nomenclature, and classification.</p>
8	Outline syllabus	
	<b>Unit 1</b>	
		<ol style="list-style-type: none"> <li>a) Fundamentals of plants,</li> <li>b) identification of physiological characteristics,</li> <li>c) deciduous and evergreen, and users pattern</li> </ol>
	<b>Unit 2</b>	
		a) General study of plant morphology

		b) anatomy c) understand the plant functions.		
	<b>Unit 3</b>			
		a) Plant identification criteria: growth habits, habitat, origin, growth duration, b) leaf arrangement, leaf type, main flower colour, flowering period, c) family, genus		
	<b>Unit 4</b>			
		a) Classification of Plant Kingdom. b) Taxonomy. c) Principles of nomenclature and identification.		
	<b>Unit 5</b>			
		a) Structural characteristics of plants, trees, shrubs and ground covers. b) Plant formations in Eco zones. c) Interdependence of animals and plants.		
	Mode of examination	Jury		
	Weightage Distribution	CA	MTE	ETE
		50%	0%	50%
	Text book/s*	<ul style="list-style-type: none"> <li>• Randhwa, M.S. (1957) Flowering Trees, New Delhi: Indian Council Of Agricultural Research.</li> <li>• H, S. (1966) Common Trees –India, The Land And the People, New Delhi: National Book Trust.</li> <li>• Bose, T.K., Chowdhury, B. and Sharma, S.P. (2011) Tropical Garden Plants in Colour, New Delhi: Horticulture And Allied Publishers.</li> <li>• M., L.a.G.H. (1964) Taxonomy of Vascular Plants, New York: Oxford. P, M. (2008) Trees of India (WWF Natures Guide), London: Oxford; Edition edition.</li> <li>• Raunkier, C (1934) The Life forms of Plants and statistical Plant Geography, London: Oxford At The Clarendon Press. S, R.M. (1971) Flowering trees (India-The land and people), New Delhi: National Book Trust.</li> <li>• S.G, N. (2004) Forest Trees of South India, Bengaluru: Navabharath Press.</li> <li>• Sahni, K.C. (1998) The book of Indian Trees, London: Oxford Publication.</li> <li>• Venkateswaralu, V.A. (2015) <i>Text book of Botany</i>, Kolkata: New Central Book Agency.</li> </ul>		
	Other References			



**MLJ 111- LANDSCAPE STUDIO-II**

<b>School: SUSAP</b>		<b>Batch : Batch : 2020-22</b>
<b>Program: M.ARCH</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: - General</b>		<b>Semester: 2</b>
<b>1</b>	<b>Course Code</b>	<b>MLJ 111</b>
<b>2</b>	<b>Course Title</b>	<b>LANDSCAPE STUDIO-II</b>
<b>3</b>	<b>Credits</b>	<b>12</b>
<b>4</b>	<b>Contact Hours (L-T-P)</b>	<b>2-2-6</b>
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> <li>• Acquire a comprehensive base of knowledge required for the practice of landscape architecture.</li> <li>• Develop awareness in the physical context about implications of limited sources in design decision making.</li> </ul>
<b>6</b>	<b>Course Outcomes</b>	<ol style="list-style-type: none"> <li>1. Readings in Landscape Architecture</li> <li>2. Introductory exercises in Art, Architecture &amp; Landscape</li> <li>3. Urban and Rural Landscape appraisal</li> <li>4. Landscape Analysis and Site Planning for medium sized sites (upto 10Ha)</li> <li>5. Landscape Design of small recreational or civic spaces.</li> </ol>
<b>7</b>	<b>Course Description</b>	To understand the various landscape design techniques and acquire a practical knowledge of landscape.
<b>8</b>	<b>Outline syllabus</b>	

<b>Unit 1</b>	<b>Introduction to terrace garden and designing techniques.</b>
	<ul style="list-style-type: none"> <li>a. Terrace garden plan</li> <li>b. Planting plan, material plan</li> <li>c. Final submission with all relevant drawings</li> </ul>
<b>Unit 2</b>	<b>Value of appraisal / evaluation reports and review, Techniques of report and review writing</b>
	<ul style="list-style-type: none"> <li>a. Cultural Landscape Analysis</li> <li>b. Site Planning for medium sized sites (up to 10 Hectares)</li> <li>c. Landscape Design of small recreational or civic spaces.</li> </ul>
<b>Unit 3</b>	<b>PS-01</b>
	<ul style="list-style-type: none"> <li>a. contain concept plan</li> <li>b. site analysis, case study</li> <li>c. plant propagation</li> </ul>
<b>Unit 4</b>	<b>PS-02</b>
	<ul style="list-style-type: none"> <li>a. Consist concept plan, plantation plan,</li> <li>b. electrical plan, furniture layout, material layout</li> <li>c. modal and 3d rendered views.</li> </ul>
<b>Unit 5</b>	<b>Application of Cultural landscape rinciples in a range of situations and directed towards understanding and proposing design possibilities in:</b>
	<ul style="list-style-type: none"> <li>a. Urban Open Space systems</li> <li>b. Rural Landscape</li> <li>c. Heritage and Cultural Landscape</li> </ul>
<b>Mode of examination</b>	Jury

Weightage Distribution	CA	ETE
	50%	50%
<b>Textbooks</b>	<ol style="list-style-type: none"> <li>1. Breen Ann &amp; Rigby Dick: New Waterfront: A Worldwide Urban Success Store. Thames &amp; Hudson</li> <li>2. Panich&amp;Trulsson: Desert Southwest Gardens.</li> <li>3. Lyall Sutherland: Designing The New Landscape. London, Thamas&amp; Hudson, 1997.</li> <li>4. Urbanism Journal</li> <li>5. Time Saver Standards for Landscape Architecture, Charles W Harris and Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series</li> <li>6. A Pattern Language By Alexander Christopher</li> <li>7. Turner Tom: City as Landscape. E&amp;PnSponAnlmp rint of Champman&amp; H</li> <li>8. Urbanismo : Urban Planning Vol.2. Axis Books, Spain,</li> <li>9. Urbanismo: Road Systems Vol.3. Axis Books, Spain,</li> <li>10. Urbanismo: Parks, Vol.4 Axis Books, Spain,</li> <li>11. Urbanismo : Squares, Vol. 5. Axis Books, Spain</li> <li>12. BrotoCarles : Urbanism. Links Internatiional,</li> <li>13. Kawaguchi Yoko : Urban Environment Design 5. Korea. Jeong, Kwang-Young, 2003.</li> <li>14. Residential Landscape By T E Walker</li> <li>15. Charver Francisco Asensio : Environmental Restortation Landscape. Arco Colour Collection,</li> <li>16. Charver Mc Clenon : Landscape Planning For Energy Conservation</li> <li>17. Cho... Michael : Green Architecture. American Inst. of Rch. Press, Washington</li> </ol>	

18. Pacanek Victor: Green Imperative Ecology & Ethics in Design.
19. Wale Robert & Brenda: Green Architecture Thames And Hudson
20. Man's Role in Changing the face of earth, thomas, William L and others, University of chicago Press, Chicago
21. Silent Spring By Carson Rachel
22. Only one earth by Barbara Ward, Andre Deutsch Ltd., London
23. Grey World, Green Heart, Robert L Thayer, John Wiley and Sons Inc. Ny
24. Gardens For The Future, Cooper Guy, Conran Octopus, London
25. Environmental Scienfce – Earth As A Living Planet Second Ed. University of California, Santa Barbara. 26. MastaediArain : Landscape Design Today. Spain. CarlesBroto&Josey Maria,
27. Building And Landscape, Andersson, Sven Ingvar, Kobenhavn K, Danish Academy
28. Hans Dieter: New Landscape Architecture. Ernst &Sohn,
29. Landscape Journal, Basel, Munchen and Birkhauser
30. Time Saver Standards For Landscape Architecture, Charles W Harris and Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
31. Preserving Modern Landscape Architecture, Papers From The Wave Hill, National Park Service Conference Landscape Transformed, Academy Editins, 1996
32. Saver StandsrdsFor Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
33. John O: Landscape Architecture Ed. 2nd Mcgraw Hill Inc, New York
34. Baker H: A Dictionary of Landscape Architect. University of New Maxico Press Albu,
35. Introduction To Landscape Architecture By Laurie Michel, Elsevier Science Publishing Company, Ny 36. Landscape : Pattern Perception

	<p>and Processes, Bell Simon, E And FnSpon, London</p> <p>37. of the City, Kevin Lynch, Mit Press, London</p> <p>38. Thomas C: Land Form Designs PD A Publication,</p> <p>39. Francisco A: Landscape Architecture The World. Atricum International,</p> <p>40. Francisco A: World of Landscape Architects: World of Environmental Design.</p>
--	---

**MLJ 112 RESEARCH METHODOLOGY - II**

<b>School: SAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: Landscape</b>		<b>Semester: II</b>
<b>1</b>	<b>Course Code</b>	<b>MLJ 112</b>
<b>2</b>	<b>Course Title</b>	<b>Research Methodology - II</b>
<b>3</b>	<b>Credits</b>	4
<b>4</b>	<b>Contact Hours (L-P-S)</b>	4-0-0
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> <li>• define the necessity of appropriate research</li> <li>• understand with the methods of conducting research</li> <li>• know the technical writing</li> </ul>
<b>6</b>	<b>Course Outcomes</b>	CO1: to recognize the subjective and objective aspects of research CO2: to identify objectives and working out methodologies CO3: to relate to and analyse the structure of a research paper CO4: to compose the research in a clear and concise format easily accessible to a range of reader
<b>7</b>	<b>Course Description</b>	The course aims to establish the understanding of research through critical exploration of research language, methods and tools and techniques.

<b>8</b>	<b>Outline syllabus</b>	
	<b>Unit 1</b>	<b>Introduction</b>
		a) Research in architecture- its importance and scope; Areas of research and types of research in architecture
		b) Research process- identification of problem, formulation of research questions and hypothesis, collection of evidences and data analysis
		c) Methods of inquiry
	<b>Unit 2</b>	<b>Research process</b>
		a) Basic Overview
		b) Formulating the research problem
		c) Defining the research problem
	<b>Unit 3</b>	<b>Research Methods</b>
		a) Research types: Quantitative vs. Qualitative Research
		b) Research types: Conceptual vs. Empirical Research
		c) Research Techniques and Tools: Questionnaire, Interview, Observation, Schedule, Check-list, Library records, Reports.
	<b>Unit 4</b>	<b>Formulation of Hypothesis</b>
		a) Sources of hypothesis
		b) Characteristics and role of hypothesis
		c) Tests of Hypothesis
	<b>Unit 5</b>	<b>Technical Report Writing</b>
		a) Research report writing
		b) Style Manuals
		c) IPR and Plagiarism

	<b>Mode of examination</b>	<b>Jury</b>		
	<b>Weightage Distribution</b>	<b>CA</b>	<b>MTE</b>	<b>ETE</b>
		50%	-	50%
	<b>Text book/s*</b>	<ul style="list-style-type: none"> <li>• Ross, R., “Research: An Introduction”, Barnes and Noble Books.</li> <li>• Khanzode, V. V., “Research Methodology – Techniques and Trends”, APH Publishing.</li> <li>• Kothari, C. R., “Research Methodology – Methods and Techniques”, New Age International.</li> <li>• Knight, A. and Ruddock, L., “Advanced Research Methods in Built Environment”, John Wiley &amp; Sons.</li> </ul>		
	<b>Other References</b>			



**MLJ 113 Theory / History of Landscape Architecture II**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch:</b>		<b>Semester: II</b>
<b>1</b>	<b>Course Code</b>	<b>MLJ 113</b>
<b>2</b>	<b>Course Title</b>	<b>Theory / History of Landscape Architecture I</b>
<b>3</b>	<b>Credits</b>	<b>4</b>
<b>4</b>	<b>Contact Hours (L-P-S)</b>	<b>0-2-2</b>
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	<p>Understand the history and evolution of landscape architecture.</p> <p>Differentiate between garden styles in landscape architecture and its evolution through history.</p> <p>Demonstrate the various landscape architecture styles.</p>
<b>6</b>	<b>Course Outcomes</b>	<p>CO1: Examine the history of evolution landscape architecture.</p> <p>CO2: Discuss the different garden styles and its evolution through time.</p> <p>CO3: Criticize and classify the urban landscape philosophies.</p> <p>CO4: Evaluate Cultural Landscape and historic landscapes.</p>

7	<b>Course Description</b>	This course is designed to develop an understanding about landscape architecture and its relationship through historic time. The course looks into various garden styles. The idea of cultural landscapes and historic landscapes is introduced in theory.
8	<b>Outline syllabus</b>	
	<b>Unit 1</b>	EARLY LANDSCAPE THEORISTS  <ul style="list-style-type: none"> <li>a. Introduction of 18<sup>th</sup> century Landscape theorist.</li> <li>b. Philosophies of William Kent and his works.</li> <li>c. Capability Brown and his landscape contributions.</li> </ul>
	<b>Unit 2</b>	19 <sup>th</sup> CENTURY LANDSCAPE PHILOSOPHIES  <ul style="list-style-type: none"> <li>a. F. L. Olmsted and landscape theories.</li> <li>b. Urban Park systems and its development.</li> <li>c. Concept of Public Park: Central park, New York.</li> </ul>
	<b>Unit 3</b>	20 <sup>TH</sup> CENTURY – MODERN LANDSCAPES  <ul style="list-style-type: none"> <li>a. The philosophies of Ian L. McHarg.</li> <li>b. Concept of Ecological planning and designing with nature.</li> <li>c. Ebenezer Howard: Utopian ideas and the Garden City movement.</li> </ul>
	<b>Unit 4</b>	POST MODERN LANDSCAPES  <ul style="list-style-type: none"> <li>a. Landscapes theories of Charles Jencks.</li> <li>b. Philosophies of environmental and historic landscape preservation.</li> <li>c. Integration of architecture - =landscape, public art and land art.</li> </ul>
	<b>Unit 5</b>	LANDSCAPE URBANISM

		<ul style="list-style-type: none"> <li>a. Philosophies of James Corner and his works.</li> <li>b. Urban landscapes by Martha Schwartz, Peter Walker etc.</li> <li>c. Ecological Urbanism and the works of Kongjian Yu.</li> </ul>		
	<b>Mode of examination</b>	<b>Jury</b>		
	<b>Weightage Distribution</b>	<b>CA</b>	<b>MTE</b>	<b>ETE</b>
		<b>30%</b>	-	<b>50%</b>
	<b>Text book/s*</b>	Design With Nature - Ian L. McHarg Landscape Architectural Graphic Standards - Leonard J. Hopper The Planting Design Handbook- by Nick Robinson Landscape Graphics - Grant Reid Trees of Delhi by PradipKrishen		
	<b>Other References</b>			

**MLJ 114- SITE PLANNING AND LANDSCAPE ENGINEERING – II**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.ARCH</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: - Architecture</b>		<b>Semester: 2</b>
<b>1</b>	<b>Course Code</b>	<b>MLJ 114</b>
<b>2</b>	<b>Course Title</b>	<b>SITE PLANNING AND LANDSCAPE ENGINEERING</b>
<b>3</b>	<b>Credits</b>	<b>2</b>
<b>4</b>	<b>Contact Hours (L-P-S)</b>	<b>1-2-0</b>
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	After successful completion of this course, student should be able to: <ol style="list-style-type: none"> <li>1. Acquire a comprehensive base of knowledge required for the practice of landscape architecture site planning.</li> <li>2. Develop awareness in the physical context about implications of limited sources in design decision making.</li> <li>3. To develop understanding about water shed management</li> <li>4. To develop understanding students with environmental modifications and engineering intervention</li> <li>5. To develop the knowledge of designing of transportation, horticulture , envioument friendly materials</li> </ol>
<b>6</b>	<b>Course Outcomes</b>	<b>Course Outcomes</b> <ol style="list-style-type: none"> <li>1. Explain the importance of landscape engineering related to site planning.</li> <li>2. To analyse and distinguish the barriers of site planning.</li> <li>3. To apply and establish relationship between all the element while designing public and private spaces.</li> <li>4. To summarise the problems and issues and identify possible solutions for different typologies</li> </ol>
<b>7</b>	<b>Course Description</b>	This course would introduce the students to the basics of landscape site planning. It would enable the student to develop an understanding of landscape design with appropriate site planning and its application.
<b>8</b>	<b>Outline syllabus</b>	

<b>Unit 1</b>	<b>Components of landscape engineering, site factors and site mobilisation</b>
	<ul style="list-style-type: none"> <li>a. Components of Landscape Engineering and their consideration in Site Planning and Landscape design.</li> <li>b. Appraisal of site factors in large scale developments with above correlation. Use of relevant software and advanced mapping technology for analysis.</li> <li>c. Site mobilisation; Sequence of site activity, site protection measures, site implementation checklist.</li> </ul>
<b>Unit 2</b>	<b>Water conservation, watershed management and harvesting techniques</b>
	<ul style="list-style-type: none"> <li>a. Landscape Engineering and water conservation.</li> <li>b. Watersheds and their characteristics, protection of natural water bodies: water retention structures,</li> <li>c. Water harvesting techniques and devices.</li> </ul>
<b>Unit 3</b>	<b>Understanding Land/environmental modifications and engineering intervention in</b>
	<ul style="list-style-type: none"> <li>a. Soil conservation and erosion control measures.</li> <li>b. Land reclamation and rehabilitation process.</li> <li>c. Disposal of sludge, fly-ash, solid and liquid waste.</li> </ul>
<b>Unit 4</b>	<b>Transportation, horticulture, environment friendly materials</b>
	<ul style="list-style-type: none"> <li>a. Strip-mines and quarries &amp; Transportation corridors.</li> <li>b. Horticulture and Forestry techniques.</li> <li>c. Environment-friendly material specifications and methodologies in landscape, to reduce carbon footprint.</li> </ul>
<b>Unit 5</b>	<b>Energy saving techniques in landscape engineering for planning &amp; estimation</b>
	<ul style="list-style-type: none"> <li>a. Energy saving techniques in landscape engineering for planning of services and utilities. Design parameters and certification criteria for green buildings.</li> <li>b. Evaluating energy efficient site planning and landscape development. Design of sustainable landscape features such as bioswales, bio retention ponds etc.</li> <li>c. Estimation of costs for civil works and plantation works. Preparation of bill of quantities, specifications and Tender documents.</li> </ul>
<b>Mode of examination</b>	<b>Jury</b>

	<b>Weightage Distribution</b>	<b>CA</b>	<b>MTE</b>	<b>ETE</b>
		<b>50%</b>	<b>-</b>	<b>50%</b>
	<b>Text Books</b>	1. Landscape Architecture Journal 2. Gardeners World Journal 3. Time Saver Standards for Landscape Architecture, Charles W Harris and Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series 4. Bartrum Douglas: Rock Garden. John Gifford Ltd., London 5. Perkins Philip H: Concrete Floors Finishers 6. Text By David Stevens: Ultimate Water Garden Book 7. Littlewood Michael: Tree Detailing. London. Butterworth Architecture, 1988		

**MLJ 115 -Ecology/ Landscape Planning**

<b>School: SAP</b>		<b>Batch : 2020-22</b>
<b>Program: M. Arch.</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch:</b>		<b>Semester:2</b>
1	Course Code	<b>MLJ 115</b>
2	Course Title	<b>Ecology/ Landscape Planning</b>
3	Credits	2
4	Contact Hours (L-T-P)	2-0-0
	Course Status	Compulsory
5	Course Objective	<ol style="list-style-type: none"> <li>1. Provide basic concept of ecology, which includes its relationship with environment and its distribution.</li> <li>2. Support to understand the ecosystem and biological community of interacting organisms with their physical environment.</li> <li>3. Provide understanding on Demography, describing populations and their change in size, density, and distribution.</li> <li>4. Enable to understand the ecology of community and its composition and distribution.</li> <li>5. To enhance a comprehensive knowledge related to the degree of variation of life including Genetic diversity, Ecosystem diversity and Species diversity.</li> </ol>
6	Course Outcomes	<p>CO1: It delivers the theoretical idea about ecology that includes the interactions of organisms with each other and with abiotic components of their environment.</p> <p>CO2: Enhance the knowledge about living (biotic) and non-living (abiotic) components of ecosystems and their interactions within an ecosystem framework. Also, improve the understanding about ecosystem types and services.</p> <p>CO3: This imparts the concept of dynamics of species populations and how these populations interact with the environment and how the population sizes of species change over time and space.</p> <p>CO4: Enable to understand the interactions between species in communities on spatial and temporal scales, including the distribution,</p>

		<p>structure, abundance, demography, and interactions between coexisting populations.</p> <p>CO5: This imparts comprehensive knowledge about the variety and variability of life on Earth and its variation at the genetic, species, and ecosystem level.</p>
7	Course Description	<p>To improve the understanding of the interactions of organisms with their environment. Also, provide the basic concept of dynamics of species populations and how these populations interact with the environment and how the population sizes of species change over time and space. Apart from the basic concept of ecology, it enables to understand the interactions between species in communities on spatial and temporal scales, including the distribution, structure, abundance, demography, and interactions between coexisting populations. It will enhance comprehensive knowledge related to the degree of variation of life including genetic diversity, ecosystem diversity and species diversity.</p>
8	Outline syllabus	
	<b>Unit 1</b>	<b>Introduction of ecology</b>
		a) Basic concepts and definitions: ecology, landscape, habitat, Eco zones, biosphere
		b) Ecosystems, ecosystem stability, resistance and resilience, autecology, synecology
		c) Major biomes and its distribution
	<b>Unit 2</b>	<b>Ecosystem ecology</b>
		a) Ecosystem, types of ecosystem, ecosystem services
		b) Energy flow, Food chain, Ecological efficiencies, Ecological pyramid
		c) Productivity and Nutrient cycling
	<b>Unit 3</b>	<b>Population ecology</b>
		a) Population density, Natality, Mortality, Dispersion, Age structure, Dispersal
		b) Population growth, Exponential growth, Logistic growth



		c) Population regulation, meta-population		
<b>Unit 4</b>	<b>Community ecology</b>			
		a) Community structure, Species composition, species diversity.		
		b) Diversity index: Simpson, Shannon, Pielou's evenness, Species – area curve.		
		c) Disturbance and species diversity, Community diversity, complexity.		
<b>Unit 5</b>	<b>Biodiversity</b>			
		a) Levels of biodiversity, Genetic diversity, species diversity, ecosystem diversity		
		b) Uses of diversity, ecosystem services, prevention and mitigation of natural disaster.		
		c) Consequences of biodiversity loss. Threats to biodiversity, habitat loss, fragmentation		
<b>Mode of examination</b>	Jury			
<b>Weightage Distribution</b>	CA	MTE	ETE	
	50%	-	50%	
<b>Text book/s*</b>	1. Introduction to Ecology I: Dr. James Danoff-Burg. 2. Introduction to Ecology Lecture Notes: WorkuLegesse, TekluMulugeta and AragawAmbelu. 3. Ecosystem Ecology: The University of Hawaii.			
<b>Other References</b>				

**MLJ112: RESEARCH METHODOLOGY**

<b>School: SAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: Landscape</b>		<b>Semester: II</b>
<b>1</b>	<b>Course Code</b>	MLJ 112
<b>2</b>	<b>Course Title</b>	<b>Research Methodology</b>
<b>3</b>	<b>Credits</b>	4
<b>4</b>	<b>Contact Hours (L-P-S)</b>	4-0-0
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> <li>• define the necessity of appropriate research</li> <li>• understand with the methods of conducting research</li> <li>• know the technical writing</li> </ul>
<b>6</b>	<b>Course Outcomes</b>	CO1: to recognize the subjective and objective aspects of research CO2: to identify objectives and working out methodologies CO3: to relate to and analyse the structure of a research paper CO4: to compose the research in a clear and concise format easily accessible to a range of reader
<b>7</b>	<b>Course Description</b>	The course aims to establish the understanding of research through critical exploration of research language, methods and tools and techniques.
<b>8</b>	<b>Outline syllabus</b>	
	<b>Unit 1</b>	<b>Introduction</b>
	<b>1a</b>	Research in architecture- its importance and scope; Areas of research and types of research in architecture

<b>1b</b>	Research process- identification of problem, formulation of research questions and hypothesis, collection of evidences and data analysis
<b>1c</b>	Methods of inquiry
<b>Unit 2</b>	<b>Research process</b>
<b>2a</b>	Basic Overview
<b>2b</b>	Formulating the research problem
<b>2c</b>	Defining the research problem
<b>Unit 3</b>	<b>Research Methods</b>
<b>3a</b>	Research types: Quantitative vs. Qualitative Research
<b>3b</b>	Research types: Conceptual vs. Empirical Research
<b>3c</b>	Research Techniques and Tools: Questionnaire, Interview, Observation, Schedule, Check-list, Library records, Reports.
<b>Unit 4</b>	<b>Formulation of Hypothesis</b>
<b>4a</b>	Sources of hypothesis
<b>4b</b>	Characteristics and role of hypothesis
<b>4c</b>	Tests of Hypothesis
<b>Unit 5</b>	<b>Technical Report Writing</b>
<b>5a</b>	Research report writing

<b>5b</b>	Style Manuals		
<b>5c</b>	IPR and Plagiarism		
<b>Mode of examination</b>	<b>Jury</b>		
<b>Weightage Distribution</b>	<b>CA</b>	<b>MTE</b>	<b>ETE</b>
	50%	-	50%
<b>Text book/s*</b>	<ul style="list-style-type: none"> <li>• Ross, R., “Research: An Introduction”, Barnes and Noble Books.</li> <li>• Khanzode, V. V., “Research Methodology – Techniques and Trends”, APH Publishing.</li> <li>• Kothari, C. R., “Research Methodology – Methods and Techniques”, New Age International.</li> <li>• Knight, A. and Ruddock, L., “Advanced Research Methods in Built Environment”, John Wiley &amp; Sons.</li> </ul>		
<b>Other References</b>			

**MAL \*\*\* – Contemporary Landscape Architecture Theory**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch:</b>		<b>Semester: 3</b>
<b>1</b>	<b>Course Code</b>	<b>MAL ***</b>
<b>2</b>	<b>Course Title</b>	<b>Contemporary Landscape Architecture Theory</b>
<b>3</b>	<b>Credits</b>	<b>2</b>
<b>4</b>	<b>Contact Hours (L-P-S)</b>	<b>2-0-0</b>
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	<p><b>Understand the history and evolution of landscape architecture.</b></p> <p><b>Differentiate between garden styles in landscape architecture and its evolution through history.</b></p> <p><b>Demonstrate the various landscape architecture styles.</b></p>
<b>6</b>	<b>Course Outcomes</b>	<p>CO1: Examine the history of evolution landscape architecture.</p> <p>CO2: Discuss the different garden styles and its evolution through time.</p> <p>CO3: Criticize and classify the urban landscape philosophies.</p> <p>CO4: Evaluate Cultural Landscape and historic landscapes.</p>

7	<b>Course Description</b>	<b>This course is designed to develop an understanding about landscape architecture and its relationship through historic time. The course looks into various garden styles. The idea of cultural landscapes and historic landscapes is introduced in theory.</b>
8	<b>Outline syllabus</b>	
	<b>Unit 1</b>	<p>EARLY LANDSCAPE THEORISTS</p> <ul style="list-style-type: none"> <li>d. Introduction of 18<sup>th</sup> century Landscape theorist.</li> <li>e. Philosophies of William Kent and his works.</li> <li>f. Capability Brown and his landscape contributions.</li> </ul>
	<b>Unit 2</b>	<p>19<sup>th</sup> CENTURY LANDSCAPE PHILOSOPHIES</p> <ul style="list-style-type: none"> <li>d. F. L. Olmsted and landscape theories.</li> <li>e. Urban Park systems and its development.</li> <li>f. Concept of Public Park: Central park, New York.</li> </ul>
	<b>Unit 3</b>	<p>20<sup>TH</sup> CENTURY – MODERN LANDSCAPES</p> <ul style="list-style-type: none"> <li>d. The philosophies of Ian L. McHarg.</li> <li>e. Concept of Ecological planning and designing with nature.</li> <li>f. Ebenezer Howard: Utopian ideas and the Garden City movement.</li> </ul>
	<b>Unit 4</b>	<p>POST MODERN LANDSCAPES</p> <ul style="list-style-type: none"> <li>d. Landscapes theories of Charles Jencks.</li> <li>e. Philosophies of environmental and historic landscape preservation.</li> <li>f. Integration of architecture - =landscape, public art and land art.</li> </ul>
	<b>Unit 5</b>	<p>LANDSCAPE URBANISM</p>

		d. Philosophies of James Corner and his works. e. Urban landscapes by Martha Schwartz, Peter Walker etc. f. Ecological Urbanism and the works of Kongjian Yu.		
	<b>Mode of examination</b>	<b>Theory</b>		
	<b>Weightage Distribution</b>	<b>CA</b>	<b>MTE</b>	<b>ETE</b>
		<b>30 %</b>	<b>20%</b>	<b>50%</b>
	<b>Text book/s*</b>	Design With Nature - Ian L. McHarg Landscape Architectural Graphic Standards - Leonard J. Hopper The Planting Design Handbook- by Nick Robinson Landscape Graphics - Grant Reid Trees of Delhi by Pradip Krishen		
	<b>Other References</b>			

**MLJ 114 : SITE PLANNING AND LANDSCAPE ENGINEERING – II**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.ARCH</b>		<b>Current Academic Year:</b>
<b>Branch: - Architecture</b>		<b>Semester: 2</b>
<b>1</b>	<b>Course Code</b>	<b>MLJ114</b>
<b>2</b>	<b>Course Title</b>	<b>SITE PLANNING AND LANDSCAPE ENGINEERING</b>
<b>3</b>	<b>Credits</b>	<b>2</b>
<b>4</b>	<b>Contact Hours (L-P-S)</b>	<b>1-2-0</b>
	<b>Course Status</b>	<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	<ol style="list-style-type: none"> <li>1. After successful completion of this course, student should be able to:</li> <li>2. Acquire a comprehensive base of knowledge required for the practice of landscape architecture site planning.</li> <li>3. Develop awareness in the physical context about implications of limited sources in design decision making.</li> <li>4. To develop understanding about water shed management</li> <li>5. To develop understanding students with environmental modifications and engineering intervention</li> <li>6. To develop the knowledge of designing of transportation, horticulture , enviourment friendly materials</li> </ol>



6	Course Outcomes	<b>Course Outcomes</b> <ol style="list-style-type: none"> <li>5. Explain the importance of landscape engineering related to site planning.</li> <li>6. To analyse and distinguish the barriers of site planning.</li> <li>7. To apply and establish relationship between all the element while designing public and private spaces.</li> <li>8. To summarise the problems and issues and identify possible solutions for different typologies</li> </ol>
7	<b>Course Description</b>	This course would introduce the students to the basics of landscape site planning. It would enable the student to develop an understanding of landscape design with appropriate site planning and its application.
8	<b>Outline syllabus</b>	
	<b>Unit 1</b>	<b>Components of landscape engineering, site factors and site mobilisation</b>
		<ol style="list-style-type: none"> <li>d. Components of Landscape Engineering and their consideration in Site Planning and Landscape design.</li> <li>e. Appraisal of site factors in large scale developments with above correlation. Use of relevant software and advanced mapping technology for analysis.</li> <li>f. Site mobilisation; Sequence of site activity, site protection measures, site implementation checklist.</li> </ol>
	<b>Unit 2</b>	<b>Water conservation, watershed management and harvesting techniques</b>
		<ol style="list-style-type: none"> <li>d. Landscape Engineering and water conservation.</li> <li>e. Watersheds and their characteristics, protection of natural water bodies: water retention structures,</li> <li>f. water harvesting techniques and devices.</li> </ol>
	<b>Unit 3</b>	<b>Understanding Land/environmental modifications and engineering intervention in</b>
		<ol style="list-style-type: none"> <li>d. Soil conservation and erosion control measures.</li> <li>e. Land reclamation and rehabilitation process.</li> <li>f. Disposal of sludge, fly-ash, solid and liquid waste.</li> </ol>

	<b>Unit 4</b>	<b>Transportation, horticulture ,enviourment friendly materials</b>		
		d. Strip-mines and quarries &Transportation corridors. e. Horticulture and Forestry techniques. f. Environment-friendly material specifications and methodologies in landscape, to reduce carbon footprint		
	<b>Unit 5</b>	<b>Energy saving techniques in landscape engineering for planning &amp;estimation</b>		
		d. Energy saving techniques in landscape engineering for planning of services and utilities. Design parameters and certification criteria for green buildings. e. Evaluating energy efficient site planning and landscape development. Design of sustainable landscape features such as bioswales, bio retention ponds etc. f. Estimation of costs for civil works and plantation works.Preparation of bill of quantities, specifications and Tender documents.		
	<b>Mode of examination</b>	<b>Theory examination</b>		
	<b>Weightage Distribution</b>	<b>CA</b>	<b>MTE</b>	<b>ETE</b>
		<b>30%</b>	<b>20%</b>	<b>50%</b>
	<b>Text Books</b>	1. Landscape Architecture Journal 2. Gardeners World Journal 3. Time Saver Standards for Landscape Architecture, Charles W Harris and Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series 4. Bartrum Douglas: Rock Garden. John Gifford Ltd., London 5. Perkins Philip H: Concrete Floors Finishers 6. Text By David Stevens: Ultimate Water Garden Book 7. Littlewood Michael: Tree Detailing. London. Butterworth Architecture, 1988 RB3 : Methods in Architecture By. Town Health		

**MLJ 201: LANDSCAPE STUDIO-III**


---

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: M.ARCH</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: - General</b>		<b>Semester: III</b>
<b>1</b>	<b>Course Code</b>	<b>MLJ 201</b>
<b>2</b>	<b>Course Title</b>	<b>Landscape Studio- III</b>
<b>3</b>	<b>Credits</b>	<b>12</b>
<b>4</b>	<b>Contact Hours (L-T-P)</b>	<b>2-2-6</b>
<b>Course Status</b>		<b>Compulsory</b>
<b>5</b>	<b>Course Objective</b>	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> <li>• Acquire a comprehensive base of knowledge required for the practice of landscape architecture.</li> <li>• Develop awareness in the physical context about implications of limited sources in design decision making.</li> </ul>
<b>6</b>	<b>Course Outcomes</b>	<ol style="list-style-type: none"> <li>1. Readings in Landscape Architecture</li> <li>2. Introductory exercises in Art, Architecture &amp; Landscape</li> <li>3. Urban and Rural Landscape appraisal</li> <li>4. Landscape Analysis and Site Planning for medium sized sites (upto 10Ha)</li> <li>5. Landscape Design of small recreational or civic spaces.</li> </ol>
<b>7</b>	<b>Course Description</b>	To understand the various landscape design techniques and acquire a practical knowledge of landscape.

<b>8</b>	<b>Outline syllabus</b>	
	<b>Unit 1</b>	<b>Introduction to terrace garden and designing techniques.</b>
		<ul style="list-style-type: none"> <li>a. Terrace garden plan</li> <li>b. Planting plan, material plan</li> <li>c. Final submission with all relevant drawings</li> </ul>
	<b>Unit 2</b>	<b>Value of appraisal / evaluation reports and review, Techniques of report and review writing</b>
		<ul style="list-style-type: none"> <li>a. Cultural Landscape Analysis</li> <li>b. Site Planning for medium sized sites (up to 10 Hectares)</li> <li>c. Landscape Design of small recreational or civic spaces.</li> </ul>
	<b>Unit 3</b>	<b>PS-01</b>
		<ul style="list-style-type: none"> <li>a. contain concept plan</li> <li>b. site analysis, case study</li> <li>c. plant propagation</li> </ul>
	<b>Unit 4</b>	<b>PS-02</b>
		<ul style="list-style-type: none"> <li>a. Consist concept plan, plantation plan,</li> <li>b. electrical plan, furniture layout, material layout</li> <li>c. modal and 3d rendered views.</li> </ul>
	<b>Unit 5</b>	<b>Application of Cultural landscape rinciples in a range of situations and directed towards understanding and proposing design possibilities in:</b>
		<ul style="list-style-type: none"> <li>a. Urban Open Space systems</li> <li>b. Rural Landscape</li> <li>c. Heritage and Cultural Landscape</li> </ul>

<b>Mode of examination</b>	Jury	
<b>Weightage Distribution</b>	<b>CA</b>	<b>ETE</b>
	<b>50%</b>	<b>50%</b>
<b>Textbooks</b>	<ol style="list-style-type: none"> <li>1. Breen Ann &amp; Rigby Dick: New Waterfront: A Worldwide Urban Success Store. Thames &amp; Hudson</li> <li>2. Panich&amp;Trulsson: Desert Southwest Gardens.</li> <li>3. Lyall Sutherland: Designing The New Landscape. London, Thamas&amp; Hudson, 1997.</li> <li>4. Urbanism Journal</li> <li>5. Time Saver Standards for Landscape Architecture, Charles W Harris and Nicholas T Dine McGraw – Hill International Edition, Arch. Series</li> <li>6. A Pattern Language By Alexander Christopher</li> <li>7. Turner Tom: City as Landscape. E&amp;PnSponAnImprint of Champman&amp; H</li> <li>8. Urbanismo : Urban Planning Vol.2. Axis Books, Spain,</li> <li>9. Urbanismo: Road Systems Vol.3. Axis Books, Spain,</li> <li>10. Urbanismo: Parks, Vol.4 Axis Books, Spain,</li> <li>11. Urbanismo : Squares, Vol. 5. Axis Books, Spain</li> <li>12. BrotoCarles : Urbanism. Links Internatiional,</li> <li>13. Kawaguchi Yoko : Urban Environment Design 5. Korea. Jeong, Kwang-Young, 2003.</li> <li>14. Residential Landscape By T E Walker</li> <li>15. Charver Francisco Asensio : Environmental Restortation Landscape. Arco Colour Collection,</li> <li>16. Charver Mc Clenon : Landscape Planning For Energy</li> </ol>	

Conservation

17. Cho... Michael : Green Architecture. American Inst. of Rch. Press, Washington
18. Pacanek Victor: Green Imperative Ecology & Ethics in Design.
19. Wale Robert & Brenda: Green Architecture Thames And Hudson
20. Man's Role in Changing the face of earth, thomas, William L and others, University of chicago Press, Chicago
21. Silent Spring By Carson Rachel
22. Only one earth by Barbara Ward, Andre Deutsch Ltd., London
23. Grey World, Green Heart, Robert L Thayer, John Wiley and Sons Inc. Ny
24. Gardens For The Future, Cooper Guy, Conran Octopus, London
25. Environmental Scienfce – Earth As A Living Planet Second Ed. University of California, Santa Barbara. 26. MastaediArain : Landscape Design Today. Spain. CarlesBroto&Josey Maria,
27. Building And Landscape, Andersson, Sven Ingvar, Kobenhavn K, Danish Academy
28. Hans Dieter: New Landscape Architecture. Ernst &Sohn,
29. Landscape Journal, Basel, Munchen and Birkhauser
30. Time Saver Standards For Landscape Architecture, Charles W Harris and Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
31. Preserving Modern Landscape Architecture, Papers From The Wave Hill, National Park Service Conference Landscape Transformed, Academy Editins, 1996
32. Saver StandsrdsFor Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
33. John O: Landscape Architecture Ed. 2nd Mcgraw Hill Inc, New

	<p>York</p> <p>34. Baker H: A Dictionary of Landscape Architect. University of New Maxico Press Albu,</p> <p>35. Introduction To Landscape Architecture By Laurie Michel, Elsevier Science Publishing Company, Ny 36. Landscape : Pattern Perception and Processes, Bell Simon, E And Fn Spon, London</p> <p>37. of the City, Kevin Lynch, Mit Press, London</p> <p>38. Thomas C: Land Form Designs PD A Publication,</p> <p>39. Francisco A: Landscape Architecture The World. Atricum International,</p> <p>40. Francisco A: World of Landscape Architects: World of Environmental Design.</p>
--	--

**MAL 202 – Dissertation I**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: B.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch:</b>		<b>Semester:III</b>
1	Course Code	MAL 202
2	Course Title	Dissertation
3	Credits	5
4	Contact Hours (L-T-P)	2-2-2
	Course Status	Compulsory
5	Course Objective	<ol style="list-style-type: none"> <li>1. To enable students to establish a strong theoretical foundation, clarity of thought and also to orient the students to structured research in a focused manner.</li> <li>2. The process of study shall enable students to conduct indepth analysis and objective research on a topic of their interest .</li> <li>3. Students may be encouraged to select the topic which may eventually culminate in the Architectural Design Thesis in the subsequent semester.</li> </ol>
6	Course Outcomes	<ul style="list-style-type: none"> <li>• <b>CO1:</b> Define and Recognise the importance of planning and preparation of data required to undertake a research project.</li> <li>• <b>CO2 :</b> Develop a thorough understanding of the chosen subject area. Identify the critical data and material required to carry out the project.</li> <li>• <b>CO3 :</b> Demonstrate the ability to collate and critically assess/interpret data. To be performed either individually or as a teamwork</li> <li>• <b>CO4 :</b> Develop an ability to effectively examine and communicate knowledge in a scientific manner.</li> <li>• <b>CO5 :</b> Formulate the study and the inputs based on research findings.</li> <li>• <b>CO6 :</b> Compare the findings, assess the research as per the comments and discussions and finally submitting a complete research report/design.</li> </ul>
7	Course Description	Students may choose a topic related to various aspects of Landscape Architecture. The topics must be vetted by the faculty. Emphasis must be on critical understanding, logical reasoning and structured writing.



		By the end of the semester, students are expected to submit a written report of approximately 8000 words wherein standard referencing conventions and technical writing norms must be adhered to. Students are expected to present the progress of the study at various stages of the semester. Final assessment of the student work may be based on written report as well as oral communication. However, greater weight age may be given for writing skills and research content of the study.
8	Outline syllabus	
	<b>Unit 1</b>	<b>Introduction to Dissertation</b>
		a) Statement of the problem.
		b) Purpose of the study
		c) Significance of the study.
	<b>Unit 2</b>	<b>Literature Review</b>
		a) Identify and group together common areas.
		b) Compare, contrast and evaluate issues.
		c) Demonstrate why the topic and research is relevant to your field of study.
	<b>Unit 3</b>	<b>Methodology</b>
		a) Sample
		b) Data collection
		c) Data analysis
	<b>Unit 4</b>	<b>Implications and Limitations of study</b>
		a) Identifying the limitations and how important each limitation is.
		b) Explaining the nature of limitations.
		c) Suggesting how such limitation could be overcome
	<b>Unit 5</b>	<b>Implications and Recommendations</b>
		a) Specific measures or directions that can be taken
		b) Critical suggestion regarding the best course of action in certain situation
		c) Guide to resolve issues and result in a beneficial outcome
	Mode of	Jury: Discussion based continuous evaluation, Research Report

examination	Presentation		
	CA	MTE	ETE
Weightage Distribution	50%	-	50%
Text book/s*			
Other References			

**MLA 203 - Construction / Working Drawing Documentation**

<b>School: SAP</b>		<b>Batch : 2020-22</b>
<b>Program: M. Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch: Landscape</b>		<b>Semester: III</b>
1	Course Code	MLA
2	Course Title	Construction / Working Drawing Documentation
3	Credits	3
4	Contact Hours (L-P-S)	2-2-0
	Course Status	Compulsory
5	Course Objective	<ol style="list-style-type: none"> <li>1. To Recall basic terminology and principles of basic elements of landscape architectural construction;</li> <li>2. To Demonstrate an understanding of the design process and development of a schematic design, design development plans, and construction documents</li> <li>3. To familiarize the students the language of representation of working drawings and the methodology of preparing drawings.</li> <li>4. To prepare a basic set of working drawings including Reference plan, grading plan, setting out plan, material plan, lighting plan, planting plan, irrigation plan, site sections, detailed drawings and integrated services drawing.</li> </ol>
6	Course Outcomes	<p>CO1: Students shall be able to understand and explain the schematic design elements using appropriate terminologies.</p> <p>CO2: Students shall be able to discuss the purpose and organization of construction documents.</p> <p>CO3: Students shall be able to demonstrate an understanding of the relationship between construction documents and landscape design using appropriate presentation and representation techniques.</p> <p>CO4: Student shall be able to combine a survey with a schematic design and construct a base plan</p> <p>CO5: Students should be able to produce a comprehensive detailed construction working drawing set good for execution for a landscape</p>

		project  CO6: Students shall be able to read consultant drawings/ shop drawings and incorporate in the comprehensive set.
7	Course Description	This construction drawing course imparts a working knowledge of procedures and techniques. Students learn the process of assembling a complete and comprehensive set of construction drawings in which title and base sheets, dimensioned layout sheets etc are prepared. Grading, drainage, and other drawings prepared in other courses are incorporated into the overall document package.
8	Outline syllabus	
	<b>Unit 1</b>	<b>Introduction to landscape working drawings</b>
	A	Understand different stages of drawing documentation
	B	Standard annotations and legends and the universal vocabulary
	C	Understand and Prepare comprehensive working drawings list,detailed format with reference base plan
	<b>Unit 2</b>	<b>Schematic design/design development</b>
	A	Identify key elements and their details-like furniture, trellis, planters, pavement etc.
	B	Develop schematic sketch plans- grading, ,material and planting and lighting plan.
	C	Develop schematic site sections and details
	<b>Unit 3</b>	<b>Detailed drawings- Plans</b>
	A	Detailed plans-lineout and grading plan
	B	Material finishes plan and cut sheets
	C	Planting plan and cut sheets
	<b>Unit 4</b>	<b>Detailed drawings- coordinated services layout</b>
	A	Electrical, plumbing, fire fighting plans
	B	Schematic Irrigation plan
	C	Schematic lighting plan with cutsheets

<b>Unit 5</b>	<b>Detailed drawings- sections and details</b>		
A	Detailed site section indicating all services		
B	Typical details		
C	Details of miscellaneous/ customised components (eg grills/gates, water features, compound walls, planters etc)		
Mode of examination	Jury		
Weightage Distribution	CA	MTE	ETE
	50%	-	50%
Text book/s*	<p>1. Time Saver Standards for Landscape Architecture, Charles W Harris and Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series</p> <p>2. Sauter, David. Landscape Construction. Belmont: Thomson Delmar Learning, 2010. (A good hands-on basic book.)</p> <p>3. Text By David Stevens: Ultimate Water Garden Book</p> <p>4. Trees of Delhi by Pradip Krishen</p>		
Other References			

**MLJ211: Thesis**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: B.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch:</b>		<b>Semester:IV</b>
1	Course Code	<b>MLJ 211</b>
2	Course Title	Thesis
3	Credits	18
4	Contact Hours (L-T-P)	0-0-12
	Course Status	Compulsory
5	Course Objective	<ol style="list-style-type: none"> <li>1. Identify a contextually challenging landscapel design problem.</li> <li>2. Evolve strategy to evolve a good solution.</li> <li>3. Evolve present and defend the proposed design</li> </ol>
6	Course Outcomes	<p>CO1: Identify a socio economic environmental context in need of a good architectural design for a key project.</p> <p>CO2: Construct a database design brief noted in the context and knowledge base.</p> <p>CO3: Analyse and prioritize the process to arrive at design solution.</p> <p>CO4: Develop and present the proposed design.</p>
7	Course Description	<p>Students may choose a topic related to various aspects of Landscape Architecture. . Independent research and presentation of findings under the direction of a supervising committee.</p> <p>The findings of the thesis should extend the boundaries of the professional discipline by either presenting new and unique ideas or information, or by interpreting existing knowledge from a different perspective. In case of a research thesis, the study</p>

		should necessarily culminate into a methodology / policies/ guidelines.
8	Outline syllabus	
	<b>Unit 1</b>	<b>Identification of the project , preparation of Synopsis</b>
		a) Introduction/Background
		b) Aims & Objective, Rationale of the topic
		c) Site Identification and justification
	<b>Unit 2</b>	<b>Literature Review</b>
		a) Identify and group together common areas.
		b) Compare, contrast and evaluate issues.
		c) Demonstrate why the topic and research is relevant to your field of study.
	<b>Unit 3</b>	<b>Program formulation</b>
		a) Detailed Design Program
		b) Design Criteria / Approach specific to the topic chosen
		c) Conceptual Design
	<b>Unit 4</b>	<b>Design interventions</b>
		a) Preliminary Design Drawings
		b) Service Drawings
		c) Landscape / Site Details
	<b>Unit 5</b>	<b>Design Proposal and Report a) Detailed design proposal</b>
		a) Detailed design proposal)
		b) Supporting literature study
		c) All Drawings & Report
	Mode of examination	Jury: Discussion based continuous evaluation, Research Report Presentation

Weightage Distribution	CA	MTE	ETE
	50%	-	50%
Text book/s*			
Other References			



**MLJ 212 :Dissertation II**

<b>School: SUSAP</b>		<b>Batch : 2020-22</b>
<b>Program: B.Arch</b>		<b>Current Academic Year: 2020-21</b>
<b>Branch:</b>		<b>Semester:1V</b>
1	Course Code	<b>MLJ212</b>
2	Course Title	Dissertation - II
3	Credits	2
4	Contact Hours (L-T-P)	0-4-0
	Course Status	Compulsory
5	Course Objective	<ol style="list-style-type: none"> <li>1. To enable students to establish a strong theoretical foundation, clarity of thought and also to orient the students to structured research in a focused manner.</li> <li>2. The process of study shall enable students to conduct indepth analysis and objective research on a topic of their interest.</li> <li>3. Students may be encouraged to select the topic which may eventually culminate in the Architectural Design Thesis in the subsequent semester.</li> </ol>
6	Course Outcomes	<ul style="list-style-type: none"> <li>• <b>CO1:</b> Define and Recognise the importance of planning and preparation of data required to undertake a research project.</li> <li>• <b>CO2 :</b> Develop a thorough understanding of the chosen subject area. Identify the critical data and material required to carry out the project.</li> <li>• <b>CO3 :</b> Demonstrate the ability to collate and critically assess/interpret data. To be performed either individually or as a teamwork</li> <li>• <b>CO4 :</b> Develop an ability to effectively examine and communicate knowledge in a scientific manner.</li> <li>• <b>CO5 :</b> Formulate the study and the inputs based on research</li> </ul>

		<p>findings.</p> <ul style="list-style-type: none"> <li>• <b>CO6</b> : Compare the findings, assess the research as per the comments and discussions and finally submitting a complete research report/design.</li> </ul>
7	Course Description	<p>Students may choose a topic related to various aspects of Landscape Architecture. The topics must be vetted by the faculty.</p> <p>Emphasis must be on critical understanding, logical reasoning and structured writing.</p> <p>By the end of the semester , students are expected to submit a written report of approximately 8000 words wherein standard referencing conventions and technical writing norms must be adhered to. Students are expected to present the progress of the study at various stages of the semester. Final assessment of the student work may be based on written report as well as oral communication. However, greater weight age may be given for writing skills and research content of the study .</p>
8	Outline syllabus	
	<b>Unit 1</b>	<b>Introduction to Dissertation</b>
		a) Statement of the problem.
		b) Purpose of the study
		c) Significance of the study.
	<b>Unit 2</b>	<b>Literature Review</b>
		a) Identify and group together common areas.
		b) Compare, contrast and evaluate issues.
		c) Demonstrate why the topic and research is relevant to your field of study.
	<b>Unit 3</b>	<b>Methodology</b>
		a) Sample
		b) Data collection

		c) Data analysis		
	<b>Unit 4</b>	<b>Implications and Limitations of study</b>		
		a) Identifying the limitations and how important each limitation is.		
		b) Explaining the nature of limitations.		
		c) Suggesting how such limitation could be overcome		
	<b>Unit 5</b>	<b>Implications and Recommendations</b>		
		a) Specific measures or directions that can be taken		
		b) Critical suggestion regarding the best course of action in certain situation		
		c) <i>Guide to resolve issues and result in a beneficial outcome</i>		
	Mode of examination	Jury: Discussion based continuous evaluation, Research Report Presentation		
	Weightage Distribution	CA	MTE	ETE
		50%	-	50%
	Text book/s*			
	Other References			