University of Mumbai



AAMS_UGS /ICC/2022-23/ 7-9

CIRCULAR:-

Sub :- M.Arch.(Landscape).

Ref: RB/MU-2022/CR-207/Edn-5/899, dated 18th August, 2022.

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Faculty of Science and Technology is invited to this office Circular No. UG/88 of 2021, dated 25th January, 2021 relating to the Syllabus M.Arch (Landscap).

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Architecture at its online meeting held on 8th January, 2022 vide item No.3 (a) and subsequently passed in the faculty of Science and Technology and then by the Board of Deans at its online meeting held on 23rd February, 2022 vide item No. 6.1 have been accepted by the Academic Council at its meeting held on 23rd July, 2020 vide Item No. 4.142 and earlier 17th May, 2022, vide item No. 6.1 and subsequently approved by the Management Council at its meeting held on 28th August, 2020, vide item No 2 and earlier 25th May, 2022 vide item No. 4 and that in accordance therewith, in exercise of the powers conferred upon the Management Council under Section 74(4) of the Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017) the Ordinance 6609 & 6610 Regulations 9353 & 9353 - A and the syllabus of M.Arch. (Landscape) Sem - I to IV (CBCS) and the same have been brought into force with effect from the academic year 2020-21, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032 20th August, 2022 (Dr. Vinod Patil)

I/c. REGISTRAR

To,

The Principals of the Affiliated Colleges, the Head of the University Department and Directors of the recognized Institutions in Faculty of Science and Technology.

A.C/6.1/17/5/2022 M.C/4/25/5/2022

AAMS_UGS/ICC/2022-23/ 79

20th August, 2022

Copy forwarded with Compliments for information to:-

- 1) The Chairman, Board of Deans
- 2) The Dean, Faculty of Science and Technology,
- 3) The Chairman, Ad-hoc Board of Studies in Architecture,
- 4) The Director, Board of Examinations and Evaluation,
- 5) The Director, Board of Students Development,
- 6) The Director, Department of Information & Communication Technology,
- 7) The Co-ordinator, MKCL.

(Dr. Vinod Patil)
I/c. REGISTRAR

Copy to:-

- 1. The Deputy Registrar, Academic Authorities Meetings and Services (AAMS),
- 2. The Deputy Registrar, College Affiliations & Development Department (CAD),
- 3. The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Department (AEM),
- 4. The Deputy Registrar, Research Administration & Promotion Cell (RAPC),
- 5. The Deputy Registrar, Executive Authorities Section (EA),
- 6. The Deputy Registrar, PRO, Fort, (Publication Section),
- 7. The Deputy Registrar, (Special Cell),
- 8. The Deputy Registrar, Fort/ Vidyanagari Administration Department (FAD) (VAD), Record Section,
- 9. The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari,

They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection.

- 1. P.A to Hon'ble Vice-Chancellor,
- 2. P.A Pro-Vice-Chancellor,
- 3. P.A to Registrar,
- 4. All Deans of all Faculties,
- 5. P.A to Finance & Account Officers, (F.& A.O),
- 6. P.A to Director, Board of Examinations and Evaluation,
- 7. P.A to Director, Innovation, Incubation and Linkages,
- 8. P.A to Director, Board of Lifelong Learning and Extension (BLLE),
- 9. The Director, Dept. of Information and Communication Technology (DICT) (CCF & UCC), Vidyanagari,
- 10. The Director of Board of Student Development,
- 11. The Director, Department of Students Walfare (DSD),
- 12. All Deputy Registrar, Examination House,
- 13. The Deputy Registrars, Finance & Accounts Section,
- 14. The Assistant Registrar, Administrative sub-Campus Thane,
- 15. The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan,
- 16. The Assistant Registrar, Ratnagiri sub-centre, Ratnagiri,
- 17. The Assistant Registrar, Constituent Colleges Unit,
- 18. BUCTU,
- 19. The Receptionist,
- 20. The Telephone Operator,
- 21. The Secretary MUASA

for information.

UNIVERSITY OF MUMBAI



Syllabus

for the

Master of Architecture

Program: M. Arch. (Landscape)

Semesters I to IV

(To introduced Choice based and Credit system with effect from the academic year 2020-21)

UNIVERSITY OF MUMBAI



SYLLABUS FOR APPROVAL

Sr.No.	Heading	Particulars
1.	Title of the Course	M. Arch (Landscape)
2.	Eligibility for Admission	Bachelor of Architecture (B. Arch) degree of this university with minimum 50% marks or passed any other examination recognized as equivalent with 50% marks. In addition the candidate must fulfil the admission criteria specified by the competent authorities for admission to M. Arch programmes.
03.	Passing Marks	50%
4.	Ordinances/Regulations if Any	-
5.	No. Of Years/Semesters	2 Years 4 Semesters
6.	Level	Post Graduate
7.	Pattern	Semester
8.	Status	New
9.	To be implemented from	From Academic Year 2020-2021

Signature Chairman of BOS Name of BOS Chairman:- Dr. Mustansir Dalvi

Dr. Anuradha Majumdar Dean, Science and Technology

Allgumdal

Preamble:

The discipline of Landscape Architecture has been practiced and taught in India from the early 1970's. Cities like Delhi pioneered followed by Ahmedabad, Chennai, Pune and Bhopal and now Vijayawada and Nagpur. In Mumbai, a unique three-year part-time Master of Architecture in Landscape, a marks-based program was approved by the University of Mumbai's Academic Council in 2008. This program now needs to be updated as per current requirements and converted to a choice based credit scheme in keeping with present day global and national education and professional standards which are mandatory as per the University Grants Commission [UGC]. The program is delivered in the Regular mode.

Landscape Architects, in their work, synthesise a range of issues, design aspirations and inspirations to produce projects which engage individuals, communities and society with place in practical, personal, cultural and political ways. The learning, tools and skill sets needed for this have also expanded.

The curriculum developed responds to these aspects and being learner centric, requires appropriate implementation support like required infrastructure including lecture halls and studios equipped for the use of ICT and Software Labs equipped in particular with Earth Analytical software like GIS, Grasshopper, and Rhino etc.

M. Arch (Landscape) is a two years (four semesters) full time programme leading to Masters Degree in Architecture, conducted as per choice based and Credit system.

- Dr. Anuradha Majumdar, Dean, faculty of science and technology
- Dr. Suresh Ukrande Associate Dean, faculty of science and technology
- Dr. Sushama Joglekar, Chairperson ad hoc board of studies in Architecture
- Dr. Arif Merchant, Member, ad hoc board of studies in Architecture
- Dr. Mustansir Dalvi Member, ad hoc board of studies in Architecture
- Dr. Rekha Nair, Member, ad hoc board of studies in Architecture

The Programme

M. Arch (Landscape) is a two years (four semesters) full time programme leading to Masters Degree in Architecture, conducted as choice based and Credit system.

Objectives of the programme:

To prepare learners for the profession of Landscape Architecture in the prevailing market scenario.

Orient the learner towards developing career skills

Expose the learner to latest trends and future roles in the profession.

To orient and prepare a learner towards seekingprogressive solutions for humanity

Develop understanding of sustainable design

To prepare learners for serving life at large by applying their learning

Resolve the challenges of life and problem-solving using landscape design

Expected learning Outcome

The M. Arch (Landscape) graduates shall develop critical knowledge of the discipline of landscape architecture. They shall develop the ability to apply landscape architecture knowledge and techniques to solve complex environmental and social problems and challenges through landscape planning and design practice across multiple scales.

O.6609 Master of Architecture (Landscape)

M. Arch (Landscape) is a two years (four semesters) full time programme leading to Masters Degree in Architecture, conducted as choice based and Credit system.

O.6610 Eligibility

Bachelor of Architecture (B. Arch) degree of this university with minimum 50% marks or passed any other examination recognized as equivalent with 50% marks

In addition the candidate must fulfil the admission criteria specified by the competent authorities for admission to M. Arch programmes.

The scheme of the syllabus

M. Arch (Landscape) is a two years (four semesters) full time programme leading to Masters Degree in Architecture, conducted as choice based and Credit system. Each semester shall have duration of one academic term. There will be an examination at end of every semester. The candidate for the degree of M. Arch (Landscape) programme will be required to pass all four semester examinations.

Examinations:

Examinations for M. Arch (Landscape) Semester I, and Semester III, will be conducted by colleges affiliated to university of Mumbai, as per the scheme of the examination as prescribed in the syllabus.

Examinations for Semester II and Semester IV will be conducted by University of Mumbai as per the scheme of the examination as prescribed in the syllabus.

COURSE CREDIT STRUCTURE

The courses for M. Arch (Landscape) programme are lecture based or studio based. Teaching per week is for 24 hours = 24 periods of 60 minutes duration. The courses have assigned no. of periods per week as described in the scheme of teaching.

The minimum credit required for award of a M. Arch (Landscape) degree is 96. The credits are distributed in four semesters as shown in the structure and syllabus manual of each programme. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester wise schedule of courses given in the syllabus manual of respective programmes.

Attendance:

Attendance for all Theory, Studio, Seminar, and Project/Dissertation is compulsory. As per the University ordinance o.6086, 75% attendance is compulsory for keeping the term.

Modes of Assessment/Evaluation

In studio based courses continuous assessment should be carried out and appropriate weightage should be given to each assignment/course project and proper record of the same to be preserved by the concerned faculty for the purpose of inspection as and when required. The weightage for Internal Assessment may be 100 percent for some courses.

Evaluation for lecture based Courses:

Various modes of assessment are used for rating learners' performance in a lecture-based course. The methods of evaluation include Internal Assessment, External Assessment and End Semester Examination. Relative weightage for Internal Assessment is generally 50 per cent. This will consist of class tests, seminars, presentation of reports or documentation, small assignments, projects to be carried out individually or in a group. The weightage for Internal Assessment may be 100 percent for some courses.

The end semester examination will be held as per the scheme of the examination and university schedule and the relative weightage for this would be 50 per cent. This examination will cover the full syllabus of the course for the respective semester.

Evaluations may be Internal [Continuous] or Internal + External [Juries/Viva voce] or by End semester written Examinations as prescribed by the course. Internal [Continuous Evaluation] wherever applicable is by Course Faculty and follows guidelines prescribed in the Framework of Evaluation and Detailed Syllabus. External Evaluation whenever prescribed in the syllabus will follow guidelines prescribed in the Framework of Evaluation and Detailed Syllabus.

Eligibility for end semester examination will be as per the regulations for respective semester.

Grades

The courses of M. Arch (Landscape) programs have

- A) Only sessional marks (internal + external) or
- B) Theory and internal sessional marks.

The grades are given on the basis of total marks obtained by adding internal and external marks obtained by the learner.

In case of A, passing grade will be given for more than 50% marks

In case of B, passing grade will be given for more than 45% marks

The letter grades and their equivalent grades points with the courses with only sessional marks will be as follows:

Case A: GRADE POINTS FOR COURSES WITH ONLY SESSIONAL WORK

Percentage of Marks	Letter	Grade	Performance
Obtained	Grade	Points	
75 and above	0	10	Outstanding
70-74.99	А	9	Excellent
65-69.99	В	8	Very Good
60-64.99	С	7	Good
55-59.99	D	6	Fair
50-54.99	E	5	Average

Case B: GRADE POINTS FOR COURSES WITH THEORY + SESSIONAL WORK

Percentage of Marks	Letter	Grade	Performance
Obtained	Grade	Points	
75 and above	0	10	Outstanding
70-74.99	А	9	Excellent
65-69.99	В	8	Very Good
60-64.99	С	7	Good
55-59.99	D	6	Fair
50-54.99	E	5	Satisfactory
45-49.99	Р	4	pass
Less than 45	F	0	Fail

Syllabus for M. Arch (Landscape) semester I

Eligibility for admission to semester I

A Candidate for being eligible for admission to first year, semester I of M. Arch (Landscape)

Must have passed B. Arch degree examination of University of Mumbai or any other examination recognized as equivalent

In addition the candidate must fulfil the admission criteria specified by the competent authorities for admission to M. Arch programmes.

Eligibility for admission to semester I examination

R A candidate for being eligible for admission to theory examination of Semester I of the of the M. Arch (Landscape) degree program of the University,

Must have kept 75% attendance for semester I of M. Arch (Landscape) degree program in a college of architecture affiliated to University of Mumbai.

- R A candidate for being eligible for admission to viva-voce examination of Semester I of the of the M. Arch (Landscape) degree program of the University,
- a) Must have kept 75% attendance for semester I of M. Arch (Landscape) degree program in a college of architecture affiliated to University of Mumbai.
- b) Must have passed internal head of passing for the courses for which viva voce examination is conducted

Candidates will be examined in the courses prescribed in the scheme of examination for Semester I of M. Arch (Landscape) program which will be conducted by the College of Architecture affiliated to University of Mumbai.

Scheme of teaching M. Arch (Landscape) semester I

Code No.	Course Name	Credits	Мо	de of Instruc	tion
			Lecture	Studio	Contact Hrs per week
MLA-S101	Landscape Design-I	8		8	8
MLA-S102	Site Planning and Development Process	4	2	2	4
MLA-C101	Earth Sciences-I	2	2		2
MLA-C102	Landscape Detailing and Engineering	2	2		2
MLA-C103	Evolution of Landscape Architecture	2	2		2
MLA-C104	Plant Systematises and Ecology	2	2		2
MLA-E101	Elective- 1 [Disciplinary]	2			2
MLA-E102	Elective-2 [Open]	2			2
	Semester Total	24			24

Scheme of examination M. Arch (Landscape) semester I

Code No.	Course Name	Credits	Mode of	Evaluation and I	Marks
			Internal	External	Written
			Assessment	Assessment	Exam
MLA-S101	Landscape Design-I	8	200	200	
MLA-S102	Site Planning and	4	100	100	
	Development Process				
MLA-C101	Earth Sciences-I	2	50		50
MLA-C102	Landscape Detailing and Engineering	2	100		
MLA-C103	Evolution of Landscape Architecture	2	50		50
MLA-C104	Plant Systematics and Ecology	2	50		50
MLA-E101	Elective-1 [Disciplinary]	2	100		
MLA-E102	Elective-2 [Open]	2	100		
		24	750	300	150
	Semester Total				1200

Syllabus (Course Content) for First year M. Arch (Landscape) semester I

MLA-S101: Landscape Design-I (Studio)

Course	MLA-S101	Credits: 8
Code:		
Title:	Landscape Design-I	Weekly Contact hours:8
Evaluation:	Internal Evaluation: 200marks	External Evaluation:200marks[Viva Voce]

- Introductory exercises in Art, Architecture & Landscape
- Specific exercises to develop reading, research, drawing skills (techniques and digital media) as well as language skills in verbal and written communication.
- Site Analysis, Planning and Detailing of Landscape space for a medium sized site involving Landscape Design for small recreational or civic spaces.
- Urban and Rural Appraisal.

Sessional work-Based on course content

MLA-S102: Site planning and development process

Course Code:	MLA-S102	Credits:4
Title:	Site Planning and Development Process	Weekly Contact hours:4
Evaluation:	Internal Evaluation: 100marks	External:100marks [Viva Voce]

- Understanding of the significance of Site planning process and its relevance in establishing relationship between site characteristics and design requirements.
- Components of site planning- Site planning processes, study of environmental, economic, legal, and visual issues associated with the land planning, preparation of site inventory and analysis, program development and statement goals, Synthesis of various above-mentioned components and implementation
- Use of relevant software and advanced mapping technology for analysis.

Sessional work- Based on the course content

MLA-C101: Earth Sciences-1

Course Code:	MLA-C101	Credits:2
Title:	Earth Sciences -I	Weekly Contact hours:2
Evaluation:	Internal Evaluation: 50 marks	Written Examination:50 marks

- Geology: Earth in space; origin and interior of the earth; early history of the Earth. The origin of life, understanding fossils, Earthquakes: causes and effects, seismic zones of India; Minerals and Metals; Rocks, Isostasy, plate tectonics, crustal deformation and mountain building; Structural geology, Stratigraphy
- Application of geological information in the interpretation of landscapes on maps and in the field. The relationships between geology, soils and vegetation: Practical examples.
- Geomorphology: Historical geomorphology, Geomorphological processes, Major processes and associated landforms; Climatic geomorphology and morphogenic regions; Structural geomorphology, landforms developed on sedimentary sequences, volcanoes and volcanic landforms, pseudo structural landforms; Running water and underground water; channel networks and drainage basins; Hill slope geomorphology; Landforms related to the activities of organisms and man.

 Soil Sciences: Genesis, morphology and classification of soils; Properties of Soils: Physical, Chemical, Biological and Mineralogical; Soil use and Management; Soil evaluation and land-use planning; Soil and water conservation; Soil fertility and plant nutrition; Soil degradation control, remedial actions and reclamation techniques; Managing difficult soils.

Sessional work- Based on the course content

May be in the form of Report of a field visit either to a geology lab or site visit

MLA-C102: Landscape Detailing and Engineering

Course Code:	MLA-C102	Credits:2
Title:	Landscape Detailing and Engineering	Weekly Contact hours:2
Evaluation:	Internal Evaluation: 100marks	

- Contours and their characteristics, graphical representation, deriving contours by interpolation.
- Earth form Grading; symbols and annotations, basic grading principles, grading of terraces, roads across/along contours, Basics of road alignment (horizontal and vertical)
- 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.
- Earthworks cut and fill processes, volume computations and retention.
- Landscape Construction: Factors in relation to systems, structures and materials for: Circulation: Roads and Parking, paths and plazas. Level Change, Planting: Planters, beds, edges and terraces. Water elements.
- Landscape simulation and site utilities
- Irrigation: broad systems and their utility as per plantation typology.
- Street furniture / site furnishings
- Landscape working drawings: Format and logical representation of information and organization with relevant cross-referencing methodology
- Research detail design processes and research approaches of Landscape Architects

Sessional work-Based on course content

MLA-C103: Evolution of Landscape Architecture

Course Code:	MLA-C103	Credits:2
Title:	Evolution of Landscape Architecture	Weekly Contact hours:2
Evaluation:	Internal Evaluation: 50 marks	Written Examination:50 marks

- History of Landscape architecture World overview and detail study of the Indian Sub-Continent.
- Association's people had with their environment (Socio-Cultural constructs of Societies) at various points of time and across the globe.
- Parklands and other Urban Interventions; Cultural Landscapes: Identity, collective memory, landscape as text, landscape as art.
- Theory of Landscape Architecture- nature of theory in landscape architecture; design process, form meaning and experience; Society, language, representation of landscape, ecological design and aesthetics of sustainability.
- Chronological overview of development of Landscape Practices and their role in shaping the profession of Landscape Architecture.

Sessional work-Based on the course content May be an essay writing or term paper

MLA-C104: Plant Systematics and Ecology

Course Code:	MLA-C104	Credits:2
Title:	Plant Systematics and Ecology	Weekly Contact hours:2
Evaluation:	Internal Evaluation: 50 marks	Written Examination:50 marks

- Plant materials and their role in ecology.
- Plant taxonomy, Physiology and Plant Distribution
- Ecology, Ecological Processes, Growth and Limits to Growth. Ecological communities, spatial structure, succession, ecological niche and species diversity;
- Introduction to the Plant Kingdom; Basic plant structure/morphology/anatomy; Basic plant functions/growth & development/physiology; Principles of taxonomy / classification, identification and naming; Familiarity with local flora and vegetation; Photosynthesis and respiration mechanism; General account of enzymes and metabolism; Growth regulators;
- Phytogeographical Regions of India; Ecological and Botanical considerations in landscape design; Application of Plant Physiology and phytogeography to sustainable

- landscape design such as use of CAM (Crassulacean acid metabolism) plants in Green roofs etc.;
- Ecological Processes and cycles including energy flow and nutrient cycles; Population and Community Ecology; Abiotic factors including air, insolation, precipitation, soils, ionizing radiation and fire; Interaction of ecology and evolution; Human Ecology; Concepts of Ecological Ethics.

Sessional work: based upon course content

May be a report of a field visit either to a herbarium or site visit

MLA-E101: Elective-1 [Disciplinary]

Course	MLA-E101	Credits:2
Code:		
Title:	Elective-1[Disciplinary]	Weekly Contact hours:2
Evaluation:	Internal Evaluation:100marks	

Disciplinary Electives are courses related to the main discipline of Landscape Architecture. These Courses add on to the learner's knowledge of the discipline through their choice of any one of the sets developed by the institution. Connect with the community is expected to underpin all these courses. Each Institution running the Program may define a minimum number of registrations to run the course. Every elective course is expected to result in a documentation which adds to the body of knowledge of the discipline of Landscape Architecture and further this aim year after year. Details regarding these courses should be clearly informed to learners through an interactive session prior to registration.

Sessional work-Based on type of elective

MLA-E102: Elective-2 [Open]

Course Code:	MLA-E102	Odd Semester	Credits:2
Title:	Elective-2[Open]		Weekly Contact hours:2
Evaluation:	Internal Evaluation: 100marks		

Open Electives are interdisciplinary courses. These Courses add on to the learner's knowledge of various disciplines through their choice of any one of the sets developed by the Institution.

Each Institution running the Program may define a minimum number of registrations to run the course. Details regarding these courses should be clearly informed to learners through an interactive session prior to registration.

Sessional work-Based on type of elective

Details of scheme of examination - M. Arch (Landscape) Semester I

MASTER OF ARCHITECTURE (Landscape) SCHEME SEMESTER I EXAMINATION TO BE CONDUCTED BY COLLEGES

			то в	E COND	UCTED BY	COLLEC	SES.			
		THEORY				SESSION	AL MAR	KS		
				INTERNAL E		EXT	ERNAL			
	COURSES	No. of Papers	Duration	Max. Marks	Min. Marks for Passing	Max. Marks	Min. Marks for Passing	Max. Marks	Min. Marks for Passing	Max Marks for the course
MLA- S101	Landscape Design-I					200	100	200	100	400
MLA- S102	Site Planning and Development Process					100	50	100	50	200
MLA- C101	Earth Sciences	1	2 Hours	50	20	50	25			100
MLA- C102	Landscape Detailing and Engineering					100	50			100
MLA- C103	Evolution of Landscape Architecture	1	2 Hours	50	20	50	25			100
MLA- C104	Plant Systematics and Ecology	1	2 Hours	50	20	50	25			100
MLA- E101	Electives 1					100	50			100
MLA- E102	Electives 2					100	50			100

Syllabus for M. Arch (Landscape) semester II

Admission to Semester II of M. Arch (Landscape) program

R A candidate for being eligible for admission to the Semester II of the of the M. Arch (Landscape) degree program of the University,

Must have kept satisfactory attendance for semester I of M. Arch (Landscape) degree program in a college of architecture affiliated to University of Mumbai.

Admission to Semester II examination of M. Arch (Landscape) program

R A candidate for being eligible for admission to theory examination of Semester II of the of the M. Arch (Landscape) degree program of the University,

Must have passed all internal heads of passing of semester I

- R A candidate for being eligible for admission to Viva-Voce examination of Semester II of the of the M. Arch (Landscape) degree program of the University,
- a) Must have passed all internal heads of passing of semester I
- b) Must have passed internal head of passing for the courses for which viva voce examination is conducted

Candidates will be examined in the courses prescribed in the scheme of examination for Semester II of M. Arch (Landscape) program which will be conducted by university of Mumbai.

Scheme of teaching M. Arch (Landscape) semester II

Code No.	Course Name	Credits	Mode of Instruction		uction
			Lecture	Studio	Contact Hrs./ week
MLA-S201	Landscape Design-II	8		8	8
MLA-S202	Planting Design	4	2	2	4
MLA-C201	Earth Sciences-II	2	2		2
MLA-C202	Landscape Project Implementation and Maintenance	2	2		2
MLA-C203	Ecosystem Analysis and Environmental Economics	2	2		2
MLA-C204	Research Methods, Representation and Writing	2	2		2
MLA-E201	Elective-3 [Disciplinary]	2			2
MLA-E202	Elective-4 [Open]	2			2
	Semester Total	24			24

Scheme of examination M. Arch (Landscape) semester II

Code No.	Course Name	Credits	Mode of Evaluation and Marks		Marks
			Internal	External	Written
			Assessment	Assessment	Exam
MLA-S201	Landscape Design-II	8	200	200	
MLA-S202	Planting Design	4	100	100	
MLA-C201	Earth Sciences-II	2	50		50
MLA-C202	Landscape Project Implementation and Maintenance	2	50		50
MLA-C203	Ecosystem Analysis and Environmental Economics	2	50		50
MLA-C204	Research Methods, Representation and Writing	2	100		
MLA-E201	Elective-3 [Disciplinary]	2	100		
MLA-E202	Elective-4 [Open]	2	100		
		24	750	300	150
	Semester Total				1200

MLA-S201: Landscape Design II

Course	MLA-S201	Credits:8
Code:		
Title:	Landscape Design II	Weekly Contact hours:8
Evaluation:	Internal Evaluation:200marks	External Evaluation:200marks [Viva Voce]

- Cultural landscapes Interactions and inter-relationships between a diverse range of physical, environmental, social, and cultural factors influenced by human involvement.
- Landscape planning and design in Public realm, with a focus on community engagement issues including environmental and social justice, open space resources, multi-modal transit ways, public health, recreation opportunities, community enhancements, and water security etc.

Sessional work-based on course work

MLA-S202: Planting Design

Course	MLA-S202	Credits:4
Code:		
Title:	Planting Design	Weekly Contact hours:4
Evaluation:	Internal Evaluation:100marks	External Evaluation:100marks [Viva Voce]

- The role of Plants and Planting as element of design at various scales and typologies. Planting in varied habitats and environments like woodlands, grasslands, rolling terrain, hillsides, marshes, bogs, wetlands, waterside, aquatic planting etc. Preparation of Planting concepts and their various representations.
- Plant material- its structure, growth pattern & requirements, microclimatic effects with introduction to ecology and ecological processes in nature

Sessional work – based on the course work

MLA-C201: Earth Sciences II

Course Code:	MLA-C201	Credits:2
Title:	Earth Sciences II	Weekly Contact hours:2
Evaluation:	Internal Evaluation:50 marks	Written Examination:50 marks

Climatology:

- Earth's Climatic Zones: Atmospheric dynamics, global air circulation, prevailing winds, oceanic currents, distribution of heat and precipitation, greenhouse gases, transfer of energy in the atmosphere, Solar Radiation.
- o Effect of topography on local climates: Rain shadow effect,
- Indian Seasonal classification: Seasons and their interpretation, the growing season and conditions for plant growth, impact of seasons on vegetations,
- o Vegetation and Microclimate: Climate, location, and nature of biomass.

Hydrology:

- Hydrological Cycle: Ground Water, Surface Water and Sub-surface water, Wetlands, Geological formations as aquifers, Precipitation, Weather duration for precipitation, Soil Moisture, Infiltration, Evaporation, Evapotranspiration, Runoff, Hydrograph, Runoff characteristics of streams, Field, Flow Duration Curve, Flow Mass Curve,
- Characteristics of precipitation in India: Relationship to vegetation, drainage basins, natural drainage patterns, Studies using GIS.

Sessional Work: Based on the course work

Mapping exercise in Hydrology, and/or a report related to Climatology.

MLA-C202: Landscape Project Implementation and Maintenance

Course	MLA-C202	Credits:2
Code:		
Title:	Landscape Project	Weekly Contact hours:2
	Implementation and	
	Maintenance	
Evaluation:	Internal Evaluation:50 marks	Written Examination:50 marks

- Horticulture and Planting Practice: Understanding horticulture, its special contribution in creating Landscapes along with its specialized streams like arboriculture, floriculture, turf grass management, forestry, nursery, garden centres etc.
- Develop a working proficiency in landscape execution, estimation and specification involving combine use of living and non-living materials.

 Landscape Maintenance: Understanding Landscape Maintenance and how it is related to Design and Implementation; Practices required for these processes and their periodicity based on landscape typology and geography. Variations that occur based on scales and protocol developed for the landscapes.

Sessional work- Based on the course work

May be in the form of field report based on site visit, Nursery visit or Market study.

MLA-C203: Ecosystem Analysis and Environmental Economics

Course	MLA-C203	Credits:2
Code:		
Title:	Ecosystem Analysis and	Weekly Contact hours:2
	Environmental Economics	
Evaluation:	Internal Evaluation:50 marks	Written Examination:50 marks

- Ecosystems their degrees of organization and self-regulation
- The interdependence of the biotic and abiotic environment
- Landscape as a performing entity contributing to economic value.
- Global and Indian Ecosystems and Habitats.
 - o Perspectives of Ecological Ethics and Land Justice.
 - Biogeographical Realms; ecoregions, biomes, floristic kingdoms, zoogeographic regions.
 - Habitats across scales and timelines.
 - Ecological communities.
 - o Energy and matter in Ecosystems.
- Spatial scaling methods for ecosystem analysis. Landscape Structure: Patches, corridors, matrix, network, and overall structure. Landscape Dynamics.
- Natural Processes and Humans interacting with their environments as a system.
 Theoretical framework considering biological, social, and physical aspects of the organism within the context of their environments.
- Flows between adjacent elements in a landscape and Landscape Functioning, Landscape change heterogeneity and management. Ecosystem degradation, factors causing it and various ways of understanding and classifying it.
- Environmental Economics Introduction and theoretical construct. Important terminologies in Environmental Economics. Valuation of environmental services. Models and Methods for economic analysis leading to sustainable planning e.g. Cost benefit analysis. Sustainable Development.

Sessional work- Based on the course work

May be Term paper / Essay writing./Quadrat study and report

MLA-C204: Research Methods, Representation and Writing

Course	MLA-C204	Credits:2
Code:		
Title:	Research Methods,	Weekly Contact hours:2
	Representation and Writing	
Evaluation:	Internal Evaluation:100marks	

- Research in Landscape Architecture
 - o Methods, Approach, defining research question and research practices
 - o Data Collection practices, mapping, and data synthesis.
 - o Analytical Framework. Case study and Theoretical construct.
- Tools and techniques in Landscape research.

Sessional work- Based on the course work

May be Field work, coursework and development of research areas of interest

MLA-E201: Elective-3 [Disciplinary]

Course	MLA-E201	Credits:2
Code:		
Title:	Elective-3[Disciplinary]	Weekly Contact hours:2
Evaluation:	Internal Evaluation:100marks	

Developed by the College, Disciplinary Electives are courses related to the main discipline of Landscape Architecture. These Courses add on to the learner's knowledge of the discipline through their choice of any one of the set developed by the College. Connect with the community is expected to underpin all these courses. Each Institution running the Program may define a minimum number of registrations to run the course. Every elective course is expected to result in a documentation which adds to the body of knowledge of the discipline of Landscape Architecture and further this aim year after year. Details regarding these courses should be clearly informed to learners through an interactive session prior to registration.

Sessional work: based on the type of elective

MLA-E202: Elective-4 [Open]

Course Code:	MLA-E202	Credits:2
Title:	Elective-4[Open]	Weekly Contact hours:2
Evaluation:	Internal Evaluation:100marks	

Developed by the College, Open Electives are interdisciplinary courses. These Courses add on to the learner's knowledge of various disciplines through their choice of <u>any one of the set developed by the College</u>. Each Institution running the Program may define a minimum number of registrations to run the course. Details regarding these courses should be clearly informed to learners through an interactive session prior to registration.

Sessional work: based on the type of elective

Details of scheme of Examination – M. Arch (Landscape) Semester II

MASTER OF ARCHITECTURE (Landscape) SCHEME SEMESTER II EXAMINATION TO BE CONDUCTED BY UNIVERSITY OF MUMBAL

						:	SESSIONA	AL MARI	(S	
		THEORY		INTE	RNAL	EXTE	ERNAL			
	COURSES	No. of Papers	Duration	Max. Marks	Min. Marks for Passing	Max. Marks	Min. Marks for Passing	Max. Marks	Min. Marks for Passing	Max Marks for the course
MLA- S201	Landscape Design-II					200	100	200	100	400
MLA- S202	Planting Design					100	50	100	50	200
MLA- C201	Earth Sciences –	1	2 Hours	50	20	50	25			100
MLA- C202	Landscape Project Implementation and Maintenance	1	2 Hours	50	20	50	25			100
MLA- C203	Ecosystem Analysis and Environmental Economics	1	2 Hours	50	20	50	25			100
MLA- C204	Research Methods, Representation and Writing					100	50			100
MLA- E201	Electives 3					100	50			100
MLA- E202	Electives 4					100	50			100

Syllabus for M. Arch (Landscape) semester III

Eligibility for Admission to Semester III of M. Arch (Landscape) program

R A candidate for being eligible for admission to the Semester III of the of the M. Arch (Landscape) degree program of the University,

Must have passed all internal heads of passing of semester I

Eligibility for admission to Semester III examination of M. Arch (Landscape) program

- R A candidate for being eligible for admission to the theory examination of Semester III of M. Arch (Landscape) degree program
 - a) Must have passed all internal heads of semester II
 - b) Must have passed semester I examination
- R A candidate for being eligible for admission to the viva- voce examination of Semester III of M. Arch (Landscape) degree program
 - a) Must have passed all internal heads of semester II
 - b) Must have passed semester I examination
- c) Must have passed internal head of passing for the courses for which viva voce examination is conducted

Candidates will be examined in the courses prescribed in the scheme of examination for Semester III of M. Arch (Landscape) program which will be conducted by the **College of Architecture affiliated to this University of Mumbai.**

Candidates will be examined in the courses prescribed in the scheme of examination for Semester III of M. Arch (Landscape) program which will be conducted by the **College of Architecture affiliated to this University of Mumbai.**

Scheme of teaching M. Arch (Landscape) Semester III

Code No.	Course Name	Credits	Mo	de of Instruct	ion
			Lecture	Studio	Contact Hrs./Week
MLA-S301	Landscape Design- III	8		8	8
MLA-S302	Seminar	4	2	2	4
MLA-C301	Landscape Conservation and Regional Planning	2	2		2
MLA-C302	Landscape Resources, Commons and Values	2	2		2
MLA-C303	Landscape Professional Practice and Project Management	2	2		2
MLA-C304	Environmental Impact Assessment and Legislation	2	2		2
MLA-E301	Elective-5 [External]	2			2
MLA-E301	Elective-6 [Open]	2			2
	Semester Total	24			24

Scheme of examination M. Arch (Landscape) semester III

Code No.	Course Name	Credits	Mode of	Evaluation and I	Marks
			Internal	External	Written
			Assessment	Assessment	Exam
MLA-S301	Landscape Design-III	8	200	200	
MLA-S302	Seminar	4	100	100	
MLA-C301	Landscape	2	50		50
	Conservation and				
	Regional Planning				
MLA-C302	Landscape Resources,	2	50		50
	Commons and Values				
MLA-C303	Landscape	2	100		
	Professional Practice				
	and Project				
	Management				
MLA-C304	Environmental Impact	2	50		50
	Assessment and				
	Legislation				
MLA-E301	Elective-5 [External]	2	100		
MLA-E302	Elective-6 [Open]	2	100		
		24	750	300	150
	Semester Total				1200

MLA-S301: Landscape Design III

Course	MLA-S301	Credits:8
Code:		
Title:	Landscape Design III	Weekly Contact hours: 8
Evaluation:	Internal Evaluation:200marks	External Evaluation:200marks [Viva Voce]

- Detailing a Landscape Project Preparation of execution drawings and documents.
- Regional Landscape Planning Design Research and Identification of a Region,
 Delineation of a Region, Analysis of the region, Visual Assessment in Landscape
 Architecture, Landscape Character survey. Development of Sustainable landscape
 management policies and models for the region. Development of Landscape planning
 models and design program at various scales for the region. Ecological and
 Environmentally sustainable planning models for the region. Formulate the Design
 Solution and implementation strategies based on the Design Program.

Sessional work – To be decided by college based on course content

MLA-S302: Seminar

Course Code:	MLA-S302	Credits:4
Title:	Seminar	Weekly Contact hours:4
Evaluation:	Internal Evaluation:100marks	External Evaluation:100marks

- Readings and Discussion on Landscape theories and practices internationally and our country.
- Research work done by the learner applying their understanding of the course Research Methods, Representation and Writing [MLA-C204]

Sessional work -based on course work

MLA-C301: Landscape Conservation and Regional Planning

Course	MLA-C301	Credits:2
Code:		
Title:	Landscape Conservation and Regional Planning	Weekly Contact hours:2
Evaluation:	Internal Evaluation: 50 marks	Written Examination:50 marks

- Landscape conservation design approach to achieve a sustainable, resilient socioecological landscape.
- The Regional Planning Process gathering partners and stakeholders together to identify common priorities as well as focal resources, assessing vulnerabilities of these resources to current and future stressors.
- Conservation strategies and actions
- Evolving relationship between nature and society; emphasizing the ethics and values which underlie forest, park, and wildlife management.

Sessional work: based on course content

Maybe Case Study/Critical evaluation of Landscape Conservation Practices. Term Paper /Essay Writing

MLA-C302: Landscape Resources, Commons and Values

Course	MLA-C302	Credits:2
Code:		
Title:	Landscape Resources,	Weekly Contact hours:2
	Commons and Values	
Evaluation:	Internal Evaluation:50 marks	Written Examination:50 marks

- Recognizing Landscape Values as an intrinsic to Land.
- Landscapes conceptualized as a resource, as a common good and its socio-economic values.
- Landscape as a resource towards conserving landscapes while assessing the utility value of the resource considering the many complex facets of landscapes.
- Understanding of landscape values (utilitarian values, socio-cultural values, economic vales) as an essential means to support sustainable land use and spatial planning by citizen participation.
- To cater for the diverse nature of people-environment interactions, develop new integrative methods to study landscape values, including in-depth case-study research, landscape modelling, participatory mapping, and meta-studies.

MLA-C303: Landscape Professional Practice and Project Management

Course Code:	MLA-C303	Credits:2
Title:	Landscape Professional Practice and Project Management	Weekly Contact hours:2
Evaluation:	Internal Evaluation:100marks	

- Professional Practice: ethical practice; the character and operation of practices; legal requirements; cash flow and profitability; running a business; professional memberships and registration; risk and professional liability; and personal career planning.
- Project management: project stages; procurement and feasibility; statutory requirements; management of time, cost and quality; and contracts and contract administration in private and public realms.
- Alternative and innovative pathways through the profession
- Legal environment; concepts of ethics and professionalism.

Sessional work: based on course content

Maybe Typical document preparation and analysis from stakeholder perspective / Debate

MLA-C304: Environmental Impact Assessment and Legislation

Course Code:	MLA-C304	Credits:2
Title:	Environmental Impact Assessment and Legislation	Weekly Contact hours:2
Evaluation:	Internal Evaluation:50 marks	Written Examination:50 marks

- Legal and legislative aspects relevant to environmental protection in India and in turn the World.
- Events both Global and National which lead to the development of Environmental Law and Legislation.
- Application of EIA and Environmental legislation in Landscape Architecture.
- International treaties and conventions and their influences in India.
- Judicial Activism and Environmental Jurisprudence in India and its Trajectory; Public Interest Litigation. Environment Impact Assessment;

Sessional work: based on course content

Maybe Case Study Analysis/Presentation, Term Paper/ Essay Writing

MLA-E301: Elective-5 [Disciplinary]

Course Code:	MLA-E301	Credits:2
Title:	Elective-5 [Disciplinary]	Contact hours:2
Evaluation:	Internal Evaluation:100marks	

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Sessional work: based on the type of elective

MLA-E302: Elective-6[Open]

Course Code:	MLA-E302	Credits:2
Title:	Elective-6[Open]	Contact hours: 2
Evaluation:	Internal Evaluation:100marks	

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Sessional work: based on the type of elective

Details of scheme of Examination – M. Arch (Landscape) Semester III

MASTER OF ARCHITECTURE (Landscape) SCHEME SEMESTER III EXAMINATION TO BE CONDUCTED BY COLLEGES.

						:	SESSIONA	AL MARI	(S	
			THEO	RY		INTE	RNAL	EXTE	RNAL	
	COURSES	No. of Papers	Duration	Max. Marks	Min. Marks for Passing	Max. Marks	Min. Marks for Passing	Max. Marks	Min. Marks for Passing	Max Marks for the course
MLA- S301	Landscape Design-III					200	100	200	100	400
MLA- \$302	Seminar					100	50	100	50	200
MLA- C301	Landscape Conservation and Regional Planning	1	2 Hours	50	20	50	25			100
MLA- C302	Landscape Resources, Commons and Values	1	2 Hours	50	20	50	25			100
MLA- C303	Landscape Professional Practice and Project Management					100	50			100
MLA- C304	Environmental Impact Assessment and Legislation	1	2 Hours	50	20	50	25			100
MLA- E301	Electives 5					100	50			100
MLA- E302	Electives 6					100	50			100

Syllabus for M. Arch (Landscape) semester IV

Admission to Semester IV of M. Arch (Landscape) program

- R A candidate for being eligible for admission to the Semester IV of the of the M. Arch (Landscape) degree program of the University,
 - a) Must have passed all internal heads of passing of semester II
 - b) Must have passed semester I examination

Eligibility for admission to Semester IV examination of M. Arch (Landscape) program

- R A candidate for being eligible for admission to the theory examination of Semester IV of M. Arch (Landscape) degree program
 - a) Must have passed all internal heads of semester III
 - b) Must have passed semester II examination
- R A candidate for being eligible for admission to the viva- voce examination of Semester IV of M. Arch (Landscape) degree program
 - a) Must have passed all internal heads of semester III
 - b) Must have passed semester II examination
 - c) Must have passed internal head of passing for the courses for which viva voce examination is conducted

Scheme of teaching M. Arch (Landscape) semester IV

Code No.	Course Name	Credits	Мо	Mode of Instruction	
			Lecture	Studio	Contact
					Hrs./Week
MLA-S401	Landscape Design-IV [Thesis]	16		16	16
MLA-C401	Advanced Representation of Landscape Experience	2		2	2
MLA-C402	Global Landscape Advocacy and Governance	2	2		2
MLA-E401	Elective-7 [Open]	2			2
MLA-E402	Elective-8 [Open]	2			2
	Semester Total	24			24

Scheme of examination M. Arch (Landscape) semester IV

Code No.	Course Name	Credits	Mode o	of Evaluation a	nd Marks
			Internal	External	Written Exam
			Assessment	Assessment	
MLA-S401	Landscape Design-IV [Thesis]	16	400	400	
MLA-C401	Advanced Representation of Landscape Experience	2	100		
MLA-C402	Global Landscape Advocacy and Governance	2	100		
MLA-E401	Elective-7 [Disciplinary]	2	100		
MLA-E402	Elective-8 [Open]	2	100		
		24	800	400	
	Semester Total				1200

MLA-S401: Landscape Design IV [Thesis]

Course Code:	MLA-S401	Credits:16
Title:	Landscape Design-IV [Thesis]	Weekly Contact hours:16
Evaluation:	Internal Evaluation: 400 marks	External Evaluation: 400 marks

Learner develops a research position as a landscape professional, conducts research by developing a research methodology. Analysis and findings of the research based on the methodology. Site Selection and analysis based on Analytical framework developed. Development of design Program, objectives and design brief. Detailed landscape Proposal reflecting knowledge gained in the entire program,

The students shall be assisted in evolving a representational system for communicating the proposal that would be done through periodic reviews with their guide/guides along with the written report.

Sessional work: based on course content

MLA-C401: Advanced Representation of Landscape Experience

Course Code:	MLA-C401	Credits:2
Title:	Advanced Representation of Landscape Experience	Weekly Contact hours:2
Evaluation:	Internal Evaluation: 100marks	

Evolve a representational system for communicating the experiential quality of a landscape design using Virtual Reality technology and its significance in design landscapes by creating and curating the experience.

Sessional work: based on course content Maybe Exhibition/ Public Outreach

MLA-C402: Global Landscape Advocacy and Governance

Course Code:	MLA-C402	Credits:2
Title:	Global Landscape Advocacy and Governance	Weekly Contact hours:2
Evaluation:	Internal Evaluation: 100marks	

- Global concerns with Landscapes guided by the recognition that these extend beyond jurisdictional borders -The interconnectedness of local to global and the role landscape architects.
- Unprecedented international efforts by governments and private actors alike seek to foster sustainable landscapes around the globe for the wellbeing of humans and nature.
- Sustainable Development Goals, complexity and context dependency of landscape realities,
- Deterioration of soils, waterbodies, forests and whole ecosystems and jointly work and develop pathways towards sustainable landscapes.
 - o 1966 Declaration of Concern Philadelphia
 - o 2000 European Landscape Convention Florence
 - 2011 Council of Europe's Evora Declaration on the European Landscape Commission on Multifunctional Landscapes
 - o 2012 Shanghai Declaration IFLA Asia Pacific
 - o 2015 IFLA Asia Pacific Region Charter
 - o 2016 New Landscape Declaration
 - 2013 Founding of Global Landscapes Forum by Center for International Forestry Research [CIFOR]
 - o 2012 Rio de Janeiro UN Conference on Sustainable Development and further
 - o 2019 IUCN A Landscape for everyone [Publication]

Sessional work: based on course content Maybe Poster/ Exhibition

MLA-E401: Elective-7 [Disciplinary]

Course Code:	MLA-E401	Credits:2
Title:	Elective-7 [Disciplinary]	Weekly Contact hours:2
Evaluation:	Internal Evaluation: 100marks	

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Sessional work: based on the type of elective.

MLA-E402: Elective-8 [Open]

Course Code:	MLA-E402	Credits:2
Title: D	Elective-8 [Open]	Weekly Contact hours:2
eEvaluation: v	Internal Evaluation: 200marks	

eloped by the College, Open Electives are interdisciplinary courses. These Courses add on to the learner's knowledge of various disciplines through their choice of <u>any one of the set developed by the College</u>. Each Institution running the Program may define a minimum number of registrations to run the course. Details regarding these courses should be clearly informed to learners through an interactive session prior to registration.

Sessional work based on the type of elective.

Details of scheme of Examination - M. Arch (Landscape) Semester IV

MASTER OF ARCHITECTURE (Landscape) SCHEME SEMESTER IV EXAMINATION TO BE CONDUCTED BY UNIVERSITY OF MUMBAI.

			THEC	nev.		SESSIONAL MARKS				
			INTERNAL		EXTERNAL		-			
	COURSES	No. of Papers	Duration	Max. Marks	Min. Marks for Passing	Max. Marks	Min. Marks for Passing	Max. Marks	Min. Marks for Passing	Max Marks for the course
MLA- S401	Landscape Design-IV					400	200	400	200	800
MLA- C401	Advanced Representation of Landscape Experience					100	50			100
MLA- C402	Global Landscape Advocacy and Governance					100	50			100
MLA- E401	Elective-7 [Disciplinary]					100	50			100
MLA- E402	Elective-8 [Open]					100	50			100

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New ordinances 6609 & 6610 relating to the M. Arch (Landscape).

1.	Necessity of starting these courses								
	Landscape Architecture has been practiced and taught in India from the early 1970s. Cities								
	like Delhi pioneered followed by Ahmadabad, Chennai, Pune and Bhopal and now Vijay								
	wada and Nagpur. The only existing M. Arch. Landscape course in Mumbai was conducted								
	in part-time mode which limits opportunities and hence was conducted in only one college.								
	The introduction								
	Of a Two Year Fulltime M. Arch. (Landscape) Program will provide better opportunities.								
2.	Whether UGC recommended to start the said course?								
	No								
3.	WhetherallcourseshavecommencedfromtheAcademicYear2021-2022?								
	No, the Two Year Full-Time M. Arch. (Landscape) course hasnotcommencedin2021-2022.								
	A part-time Master of Architecture in Landscape currently runs in one college and								
	admissions to this part time course last took place in AcademicYear20192020.								
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4.	The courses started by the University are self-financed, whether adequate numbers of								
	eligible								
	Permanent faculties are available?								
	Yes, the course is to be self-financed.								
	The City of Mumbai has a good number of practicing Landscape Architects as well as								
	Landscape Architects teaching in Architecture Colleges. The one affiliated college								
	conducting the part-time course has adequate eligible permanent faculties.								
5.	Togivedetailsregardingdurationofthecourseandisitpossibletocompressthecourse?								
	Durationofthecourse:2years full-time								
	It is not possible to compress the course.								
6.	The intake capacity of each course and no. of admissions give ninth the current								
	Academic Year								
	2021-2022?								
	Intake is20.								
	intake 1820.								
	No admissions give ninth current Academic Year 2021-2022								
7.	OpportunitiesofEmployability/Employmentavailableafterundertakingthiscourse?								
	Given the vital nature of the course, there are various opportunities possible for								
	graduates of this course. Students can be employed as teachers of Architecture or in as								
1	landscape architects in the								
1	profession.Graduatesofthisprogramcanalsobeemployedinthepublicsectorandgovernment.								
	T - L - Q								

Signature –

Chairperson, Ad-hoc Board of Studies in Architecture Under the Faculty of Science and Technology