

VISVESVARTA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examinations 2024												
M.Arch SUSTAINABLE ARCHITECTURE												
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)												
I Semester												
SI No	Course	Course Code	Course Title	Teaching Hours per Week			Examinations				Credits	
				Lecture	Studio / Seminar	Tutorial / Skill Developm ent Activities	Duration hours	CIE Marks	SEE Marks			Total Marks
									L	S		
1	ISC/PCC	MASA101	Integrated Sustainable Studio I	2	8	-	-	100	-	100	200	10
2	PCC	MASA102	Building Physics and Passive Design	2	-	2	3	50	50	-	100	3
3	PCC	MASA103	Fundamentals of Lighting and HVAC	2	1	-	3	50	50	-	100	3
4	PCCL	MASA104	Performance Evaluation of Buildings - I	1	2	1	-	100	-	-	100	3
5	PSC	MASA105	Sustainability and Environment	3	-	1	3	50	50	-	100	3
6	PEC - I	MASA116x	Professional Elective Course - I	1	1	-	-	100	-	-	100	2
7	NCMC	MRMI107	Research Methods for Planning & Architectural Studies	Online courses (online.vtu.ac.in)								PP
TOTAL				11	12	4	9	450	150	100	700	24
Note: ISC - Integrated Studio Course, PCC - Professional Core Course, NCMC - None Credit Mandatory Course, PSC - Professional Supportive Course to the specialization, PCCL - Professional Core Course lab, PEC - Professional Elective Course AUD/AEC - Audit Course / Ability Enhancement Course, L - Lecture, S - Studio, T/SDA - Tutorial / Skill Development Activities (Hours are for Interaction between faculty and students)												
Course Code under 23ASA16			Course Title									
MASA116A			Sustainable Development Laws in India									
MASA116B			Material Science									
MASA116C			Indigenous Knowledge system									

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M.Arch SUSTAINABLE ARCHITECTURE

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Integrated Studio Course (ISC): Refers to a Professional Studio Core Course Integrated with the theories/software relating to the studio. The theory part of the ISC shall be evaluated by CIE with regular assignment. The studio part shall be evaluated by both CIE & SEE (Viva-Voce with the external examiner).

Professional Core Course (PCC): Refers to a Course, which constitutes a major theory part of the particular specialization. **PSC:** Professional Supportive Course to the Specialisation.

PEC: Professional Elective Course: Elective courses will provide some of the most valuable and additional knowledge. The students will benefit from electives as they imply additional knowledge. Students may select courses from a large array of subjects that enhance their knowledge.

1. Studio:

- (i) Students and studio coordinators to be involved individually or in groups to interact and enhance learning and application skills.
- (ii) The students should be involved with Industry/ Professional Bodies/ Stakeholders in issue identification followed by research/ case studies/ testing that results in creative and innovative solutions to the identified problems.
- (iii) Students will gain real-world experience by working with industry professionals
- (iv) Students must work on different software/s(tools) to simulate, analyze, and authenticate the output to interpret and conclude.
- (v) Students must be involved in case studies and site visits/fieldwork.
- (vi) Students must familiarize themselves with codes of standards to narrow the gap between academia and the respective domain-oriented industry.

2. All activities should enhance student's abilities for employment and/or self-employment opportunities, management skills, Statistical analysis, fiscal expertise, etc.

3. **Skill Development Activities:** They may be in the form of periodic site visits, guest lectures, and webinars, and seminars, need not be a fixed slot in timetables.

Also the student Under Skill development activities in a respective program, the students should

1. Interact with industry (construction/consultancy/product oriented).
2. Involve in research/testing/projects to understand their problems and help creative and innovative methods to solve the problem.
3. Involve in case studies and field visits/ fieldwork.
4. Accustom to the use of standards/codes/byelaws/zoning regulations etc., to narrow the gap between academia and industry.

All activities should enhance student's abilities to employment and/or self-employment opportunities, management skills, statistical analysis, fiscal expertise, etc. Students and the course faculty are to be involved either individually or in groups to interact together to enhance the learning and application skills of the study they have undertaken. The students with the help of the course teacher can take up relevant technical activities that enhance their skills. The prepared report shall be evaluated for CIE marks.

4. Viva-voce:

The viva -voce shall be conducted for a duration of 20 minutes (per student including if any group presentation) for the subjects listed under viva voce for all the semesters with one external examiner and one internal examiner.

24RM119-Research Methodology and IPR- Non-Credit Mandatory Course (NCCM) The student has to take this course at <http://online.vtu.ac.in> and qualifying in this course is compulsory before completion of the minimum duration of the program (Two years), however, this course will not be considered for **vertical progression**.

Online Course: These are the MOOC courses that the relevant stream's Board of Studies has recommended; you can access them at www.online.vtu.ac.in. To qualify for those courses, the students must complete 8-12 weeks duration courses. The courses chosen have not to be the same as that of the courses or subjects covered in the preceding semesters. Depending on the needs of the degree program, the BOS may recommend interdisciplinary courses. It is required to pass the course and qualify.

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II Semester												
SI No	Course	Course Code	Course Title	Teaching Hours/Week			Examinations				Credits	
				Lecture	Studio	Skill Development Activities	Duration hours	CIE Marks	SEE Marks			Total Marks
									L	S		
1	ISC/PCC	MASA201	Integrated Sustainable Studio II	2	8	-		100	-	100	200	10
2	PCC	MASA202	Resourse Conservation and Efficiency	2	-	2	3	50	50	-	100	3
3	PSC	MASA203	Green Building Technologies	2	-	2	3	50	50	-	100	3
4	PCCL	MASA204	Performance Evaluation of Buildings - II	1	2	1	-	100	-	-	100	3
5	PEC - II	MASA215x	Professional Elective Course - II	1	1	-	-	100	-	-	100	2
TOTAL				8	11	5	6	400	100	100	600	21
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Course Code under 23ASA25			Course Title									
MASA215A			Sustainable Interiors									
MASA215B			System Thinking and Technology									
MASA215C			Post Occupancy Evaluation of Buildings									

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III Semester												
SI No	Course	Course Code	Course Title	Teaching Hours/Week			Examinations				Credits	
				Lecture	Studio	Skill Development Activities	Duration hours	CIE Marks	SEE Marks			Total Marks
									L	S		
1	ISC/PCC	MASA301	Building Performance and Analysis Studio	2	8	-		100	-	100	200	10
2	PCC	MASA302	People, Environment and Building	2	-	2	3	50	50	-	100	3
3	PSC	MASA303	Professional Training / Internship	03 months, Viva-Voce to be conducted			-	-	-	100	100	3
4	PSC	MASA304	Research Methodology / Thesis Phase I	2	-	2	-	50	-	50	100	3
5	PEC - III	MASA315x	Professional Elective Course - III	1	1	-	-	100	-	-	100	2
TOTAL				7	9	4	3	300	50	250	600	21
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Course Code under 23ASA35			Course Title									
MASA315A			Sustainable Landscape									
MASA315B			Energy Auditing									
MASA315C			Intelligent Buildings									

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IV Semester												
SI No	Course	Course Code	Course Title	Teaching Hours/Week			Examinations				Credits	
				Lecture	Studio	Skill Developm ent Activities	Duration hours	CIE Marks	SEE Marks			Total Marks
									Theory	VivaVoce		
1	PCC	MASA481	THESIS PROJECT	2	12	-		100	-	100	200	14
TOTAL				2	12	0	0	100	0	100	200	14
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CIE procedure for Project Work: The CIE marks shall be awarded by a committee/panel of guides consisting of the head of the concerned department, internal and external reviewer whoever takes review including mid-review on invitation by the department. The CIE marks awarded for the dissertation / project work shall be based on the evaluation of the dissertation work process / progress such as researchonanissue,title,literaturereview, dissertation structure, study methodology, issues and strategies, design program and intervention etc. evaluation also need to be based on the presentation skill, work during the periodic review. 25% weightage to be given to the strategies & solutions developed.												
SEE procedure for Project Work: The two examiners appointed by the University will conduct SEE for dissertation work with one internal examiner. The SEE marks awarded for the project work shall be based on the objectives and rubrics set and the final presentation/defending the viva voce / portfolio / dissertation report / Research Papers Published / documentation which showcases the outcome of a dissertation / project work. The weightage of the above may vary based on the specialization / topic of the dissertation / project work.												
TOTAL CREDITS: 24+21+21+14 = 80 (with 3 months vacation internship after 2nd semester)												