

MASTERS IN ARCHITECTURE (ENVIRONMENTAL ARCHITECTURE)

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

1. **KNOWLEDGE AND SKILLS** - To enable students to gain practical knowledge in the field of environmental design and interpret this to achieve environmental sustainability. To enable students to integrate traditional knowledge with contemporary practices.
2. **RESEARCH** - To enable students to critically evaluate research and practices in the field to arrive at studied solutions. To inculcate scientific research thinking and critical analysis in the environmental research domain for the students and faculty both.
3. **EMPLOYABILITY**- To enable students to become architectural practitioners with a clear understanding of global issues. To enable students to take informed and independent decisions pertinent to their field with client needs in mind in the context of current policy requirements.
4. **ETHICS & VALUES** – To instill students with the ability to work in context specific domains in an interdisciplinary work culture respecting the values of the various disciplines. To provide students with the ability to integrate knowledge of environment enabling them to work for the larger benefit of society. The students should be able to take design decisions based on ethical considerations in the profession.
5. **THEORETICAL BASE** – To provide students with a technically sound base of theory and practical knowledge from issues ranging from the micro to the macro level of environmental concerns.

PROGRAM OUTCOMES (PO's)

On completion of the program

1. **Design and planning knowledge** - Graduates will be able to identify issues related to sustainability and provide architectural or planning solutions. Graduates will be able to address various environmental problems through design and planning using cutting edge methods and approaches.
2. **Research Skills** - Graduates will be able to demonstrate skills in research and critical thinking
3. **Technical Knowledge** - Graduates will be able to address and resolve issues related to energy and other sustainability concepts in architectural design. Graduates will be able to apply appropriate methods, tools and technologies to achieve integrated environmental designs
4. **Practical Knowledge** - Graduates will be able to identify and resolve issues in the real life context with the goal of achieving environmental sustainability. Ability to imbibe current and contemporary practices enabling them to handle a wide range of projects from rural to urban contexts.
5. **Sensitization and Responsibility** - Graduates will be able to understand the holistic perspective of environment developing a sensitive understanding of the natural environment to ensure the responsibility towards the future generations for the use of these resources.

6. **Communication Skills** – Graduates will be enabled with the ability to effectively communicate their ideas through various mediums like graphic and oral presentation skills to ensure the transfer of knowledge to professionals and common man alike.
7. **Social Responsibility** - Graduates will be able to apply knowledge gained to the greater good of society through design and research.

M.ARCH. (ENVIRONMENT)
SPPU, PUNE

MATRIX OF PROGRAM EDUCATIONAL OBJECTIVES AND PROGRAM OUTCOMES

PEO	PO1 DESIGN AND PLANNING	PO2 RESEARCH SKILLS	PO3 TECHNICAL KNOWLEDGE	PO4 PRACTICAL KNOWLEDGE	PO5 SENSITIZATION AND RESPONSIBILITY	PO6 COMMUNICATIO N SKILLS	PO7 SOCIAL RESPONSIBILITY
PE01- KNOWLEDGE AND SKILLS	√	√	√			√	
PE02- RESEARCH		√				√	√
PE03- EMPLOYABILITY	√		√	√	√	√	√
PE04 ETHICS & VALUES		√			√		√
PE05 THEORETICAL BASE	√		√	√			

Sr.No.	Program Outcomes	Subjects in curriculum
1	PO1-DESIGN AND PLANNING	Environmental Design Studio-I, II, III Sustainable Development and Environmental Management Environmental Architecture Project Lighting Lab
2	PO2- RESEARCH SKILLS	Elective-I, II, III Research I and II Environmental Laws and Legislations Environmental Architecture Project
3	PO3- TECHNICAL KNOWLEDGE	Research-II Environmental Architecture Project Building Energy Management I and II Tools for measuring sustainability Software Simulation Building Physics I Lighting Lab Advanced Technology and Design Lab
4	PO4- PRACTICAL KNOWLEDGE	Environmental Architecture Project Elective –III (Open Elective) Environmental Professional practice and Training Building Physics I

Sr.No.	Program Outcomes	Subjects in curriculum
5	PO5- SENSITISATION AND RESPONSIBILITY	Environmental Design Studio II Environmental Architecture Project Natural Resource Management
6	PO6- COMMUNICATION SKILLS	Research II Elective I Elective II Elective III Environmental Design Studio-I, II, III Environmental Professional practice and Training
7	PO7- SOCIAL RESPONSIBILITY	Environmental Design Studio II Research II

Sr.No.	Electives	Tentative Subjects of Electives
01	Elective I [Sem-1]	1. Efficient Building Materials & Technologies 2. Carbon Footprint and Mapping 3. Global Trends in Sustainability and Outreach
02	Elective II [Sem-2]	1. Environmental Behavior 2. Indoor Environmental Quality 3. Post Occupancy Evaluation and Techniques
03	Elective III [Sem-4]	Open Elective-Choice Based-Interdisciplinary Elective



