




Ist Semester M.Arch			
SUBJECT CODE	SUBJECT NAME	COURSE OBJECTIVES	
PGEA101 T	SOCIETY & ENVIRONMENTAL ECONOMICS	CO1	To understand the fundamentals of sociology and evolutions of social institutions, urban sociology
		CO2	To understand various concepts such as capital accumulation and growth, different models and comparisons with various associated variables
		CO3	To understand fundamentals of environmental economics, natural resource economics and conservation of natural resource.
		CO4	To understand various pollution agencies and contributing factors. Social principles of environmental protection.
PGEA102 T	TRADITIONAL KNOWLEDGE SYSTEMS	CO1	To study agrarian society and its impact on regional architecture.
		CO2	To understand the factors responsible for various life styles, beliefs and emergent spaces. Festivals as a resultant.
		CO3	Indian artisans and their work requirements. Emerging spaces as a reflection of artisan skills using local materials.
		CO4	To understand region based technology evolved through local building material. Emergence of vernacular thought based on such technologies. Water, its judicious use and management.
		CO5	To understand settlement patterns as a resultant of restoring social, economic and environmental resilience. Concept of Lokvidya
PGEA103 T	SUSTAINABLE BUILDING TECHNOLOGY AND MANAGEMENT	CO1	To understand eco-friendly materials in terms of their composition, recycling etc. Embodied energy and life cycle assessment of materials
		CO2	To work out Design possibilities to reduce consumption by understanding site and its context and design in synergy with natural factors
		CO3	To study various energy efficient systems, building management & automation systems.
		CO4	To study various awareness programmes for users involved in operations and maintenance of buildings.




PGEA104 P	ELECTIVE -I (Contemporary Practices in Sustainable Architecture)	CO1	To understand role and contributions made by Indian as well as foreign individuals in the field of sustainability in the form of their ideas, philosophies and their work.
		CO2	To understand role and contributions made by Indian as well as foreign agencies in the form of their ways and approaches to achieve sustainability in the field of architecture
		CO3	To understand various government policies and programmes and role of service providers within the government system.
PGEA105 T	ELECTIVE - II (OPEN)	CO1	
		CO2	
PGEA106 P	ENVIRONMENT ARCHITECTURE THEORY	CO1	To Understand the history of environmental degradation, role of industrial revolution and its impact
		CO2	To study the need and start of various movements by different individual and agencies
		CO3	to study through specific examples various eastern and western theories of environmental architecture
PGEA107 P	SUSTAINABLE DESIGN STUDIO - I	CO1	To understand role of climate and its associated factors as a key for sustainable design through design case studies and assignments
			 Prof. A. V. Purohit (Principal, IDEAS, Nagpur)

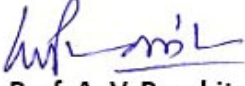


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PGEA201 T	ENVIRONMENTAL LAWS & LEGISLATIONS	CO1	To understand provisions under the environmental law, its constitution and fundamental rights
		CO2	To study and understand provisions under various legislation through various Government acts and guidelines .
		CO3	To study and understand various environmental notifications and policies at national and international level.
PGEA202 T	RENEWABLE ENERGY SYSTEMS AND TECHNOLOGIES	CO1	To study and understand various renewable and alternate energy systems
		CO2	To study and understand various environment technologies pertaining to water and waste which are prevailing in India.
PGEA203 T	ENVIRONMENTAL IMPACT ASSESSMENT & MITIGATION	CO1	To understand need and role of EIA, various methods of EIA and its criteria to implement.
		CO2	To understand the various methods of assessment of impacts on natural resources and also on social and health .
		CO3	To study and understand various mitigation techniques and strategies for sustainable development.
PGEA204 P	ELECTIVE - III (Restoration of ecologically disturbed sites)	CO1	To study ecology of various natural ecosystems, environmental security and conflict and its risk assessment
		CO2	To study various monitoring and evaluation techniques and understand principles of GIS & Remote Sensing and its application in planning of environment
		CO3	To study various restoration approaches, planning principles, management. Techniques such as soil restoration , seed collection, plantation etc.
		CO4	To understand through case studies Rehabilitation and restoration of various ecosystems such as coastal, grassland, forest etc.
PGFD205 T	FOUNDATION COURSE - I (Research Methodology)	CO1	To understand the fundamental of research in terms of its types, difference between research methods and research methodology
		CO2	To understand the need to review literature, documentation and note taking etc.
		CO3	To understand the need of Research Planning, hypothesis formulation research design etc.
		CO4	To study and understand various methods of processing data and numerous processes to analyse it. To understand various techniques of report writing etc.



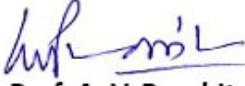
PGEA206 P	ENERGY AUDITS AND CODES	CO1	To study and understand energy conservation in buildings, its codes and rating system
		CO2	To study Indian scenario of energy conservation and rating systems, various stakeholders involved and role of government in implementing the same.
		CO3	To study Indian codes and rating systems such as ECBC, IGBC, GRIHA etc. and provision theirunder
		CO4	To study and understand the method to use various codes and their guidelines to get certification for new /old buildings/campuses.
PGEA207 P	SUSTAINABLE DESIGN STUDIO - II	CO1	To understand and apply the design principles for energy efficiency and sustainable development on a campus level assignment.
		CO2	To study and apply the knowledge of environment friendly planning at settlement level
PGOPEN ARCH020	ELECTIVE -IV (Open) Man Environment & Sustainability	CO1	To study Earth's resources with respect to availability, scope and limitations
		CO2	To understand emerging trends and their possible threats on local ideologies, traditional knowledge systems etc.
		CO3	To understand the concepts of agricultural patterns in maintaining sustainability. Understanding tribal society and their lifestyle management to achieve sustainability
		CO4	To study various efforts taken by individual and agencies to practices sustainability, appropriate technology v/s sustainability and role of participatory approach for sustainable development
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IIIrd Semester M.Arch			
PGFD302 T	FOUNDATION COURSE -II (Project Planning, Evaluation & Management)	CO1	To study and understand the basics of project management, project identification process, Feasibility studies etc.
		CO2	To Understand the principles of project planning, project life cycle organisational structure etc.
		CO3	To understand resources and their considerations in project planning, risk management considerations and values of project quality management
		CO4	To study performance and measure for a given project, its execution and control and exposure to project management softwares
PGEA303 P	SOFTWARE SIMULATION TOOLS FOR ENERGY EFFICIENT BUILDINGS	CO1	To understand history , importance and compatibility of simulation softwares
		CO2	To study and understand various tools, modelling techniques, simulations and analysis of buildings by softwares
PGEA304 P	SEMINAR	CO1	To develop the capacity within students to undertake a research assignment pertaining to environmental architecture.
		CO2	To study and analyse the topic taken and working out best method to present the same through critical observations
		CO3	To overall equip the researcher with the skill to effectively and efficiently scale the research project.
PGEA305 P	SUSTAINABLE DESIGN STUDIO - III	CO1	To understand and apply the design principles for energy efficiency and sustainable development on a campus level assignment.
		CO2	To study and apply the knowledge of environment planning at urban level
		CO3	To develop capacity to generate an Environment Management Plan of the studio assignment
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IV Semester M.Arch

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PGEA401 P	PROFESSIONAL TRAINING	CO1	To provide an insight into practical applications of technical knowhow in specialised field of environment friendly architecture.
PGEA402 P	COLLOQUIUM	CO1	To inculcate within students various research techniques, report writing and presentation techniques.
PGEA403 P	DISSERTATION	CO1	To make students explore an practical or conceptual project to eveolve a sound methodology and solution.
		CO2	To make students explore dissertation possibility with focus on planning and policy aspects or it could culminate in design of a suitable built form as solution.
		CO3	To make students explore dissertation possibility with focus on designing a computer software for environment related issues.
		CO4	To make students explore dissertation possibility with focus on in depth investigation on one or more topics studied in earlier semesters
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