

Program learning outcomes (PLOs)

Upon completion of the program, graduates will be able to:

Program Learning Outcomes (PLOs)	Competency level	Performance Indicators (PIs)
PLO1. Analyse architectural design context Analyse architectural design problems by integrating technical, technological, environmental, and socio-cultural knowledge within specific contexts to identify design requirements and influencing factors.	C4/P3/A4	PI1.1: Identify the technical, functional, environmental, socio-cultural, and site conditions based on site survey data to ensure a clear understanding of the design context.
		PI1.2: Analyse the relationships and interactions among contextual factors based on the collected survey data to determine design requirements.
		PI1.3: Analyse the completeness and feasibility of the design requirements against sustainable development principles and applicable codes and standards to determine necessary revisions or additions before design.
PLO2. Evaluate and select design options Evaluate and select appropriate design options from multiple feasible alternatives to make sound, creative decisions that meet design requirements.	C5/P4/A4	PI2.1: Compare design options based on clearly defined criteria (including aesthetics, functionality, technical performance, cost, sustainability, and feasibility) to identify the strengths and weaknesses of each option.
		PI2.2: Analyse how well each design option satisfies the design requirements using professional evaluation tools (e.g., scoring rubrics, evaluation matrices, simulations, and life-cycle analysis) to identify the options most appropriate to the design context.
		PI2.3: Select the optimal design option through an integrated consideration of the criteria and performance levels to make a reasonable and creative decision.
PLO3: Designing architecture to professional standards Design architectural works that meet aesthetic, functional, technical, legal,	C6/P4/A5	PI3.1: Develop architectural design documents (plans, elevations, sections, perspectives, models, simulations) based on clearly defined design requirements to produce functional, aesthetic, and feasible design solutions.
		PI3.2: Coordinate with technical specialists based

and socio-cultural requirements within a given context in order to produce design documents that comply with professional standards.		on applicable codes and standards to guide the building's engineering solutions.
		PI3.3: Complete conceptual and schematic design documents in accordance with applicable legal and professional regulations to ensure accuracy, completeness, and professional quality.
PLO4: Creative and sustainable design Develop creative and sustainable architectural design solutions that respond to environmental, social, and innovation challenges in order to create value-added designs with practical application potential.	C6/P5/A5	PI4.1: Analyze socio-environmental trends and needs within the design context to identify opportunities for innovation, value creation and entrepreneurial thinking.
		PI4.2: Propose design solutions that meet innovation requirements and technical constraints to create creative, unique and feasible solutions.
		PI4.3: Evaluate the use value, social impact and application potential of an option against sustainability criteria to determine the improvements needed and propose adjustments.
PLO5: Science-based architectural research Conduct independent architectural research using critical thinking and lifelong learning that is based on clearly defined contexts and data in order to propose solutions grounded in scientific evidence and practical needs.	C6/P4/A4	PI5.1: Collect and organize existing-condition data using up-to-date methods and tools appropriate to the research context to ensure the accuracy and completeness of information.
		PI5.2: Analyze the collected data using specialized methods and new approaches to identify the key issues relevant to the research context.
		PI5.3: Develop architectural solutions based on the analysis results and clearly defined, up-to-date evaluation criteria to ensure scientific validity and responsiveness to practical needs.
PLO6: Application of architectural design technology Apply architectural design software, digital technologies, and artificial intelligence (AI) in modelling, analysis, and presentation in order to	C4/P4/A3	PI6.1: Model architectural projects using specialised design software (CAD, BIM, and 3D modelling tools) with the required level of accuracy to produce outputs that meet technical standards.
		PI6.2: Apply digital technologies or artificial intelligence (AI) in design support to enhance the speed, analytical capability, efficiency, and creativity of architectural design solutions.

enhance technical performance, design quality, and creativity.		PI6.3: Communicate architectural design ideas using visual representation methods to convey information clearly and appropriately to the intended audience.
PLO7: Communication and design presentation Communicate and present architectural design ideas to clients, communities, and multidisciplinary teams in order to achieve clear, persuasive, and professional communication.	C5/P5/A4	PI7.1: Communicate architectural design ideas using visual representation methods to convey information clearly and appropriately to the intended audience.
		PI7.2: Present and explain design proposals in interactive settings with clients and communities to promote understanding and persuasion.
		PI7.3: Critique and justify design proposals within design teams and in response to stakeholder feedback to communicate design decisions clearly, logically, and professionally.