

	Program Outcomes	1	2	3	4	5	6	7	8	9	10	11
	Course Learning Outcomes	Generate 2D, 3D, 4D forms and processes in accordance with basic principles of design for the betterment of life	Identify and analyze design problems, and use creative thinking methods for solutions.	Apply various methods and tools required at different steps of the design process.	Use theoretical and practical knowledge competently while designing systems, services, and products.	Use proper methods to identify the needs of potential users and use contexts, and develop solutions to mediate intended user experiences.	Plan a design process by complying with the various needs of different industries; effectively carry out this process individually or in collaboration with multidisciplinary teams.	Evaluate and contribute to the development of existing knowledge and practice through proper research, critical thinking and ethical perspective.	Identify the materials and production technologies within the scope of industrial design activity, and use it within design processes.	Prepare mediums to competently transfer ideas into visual, oral, and written forms, and effectively communicate with stakeholders throughout the design process.	Demonstrate a professional approach to industrial design by taking into account its historical background and ever-changing technological, economic and social contexts, and to treat design practices in this framework.	Appraise the importance of social responsibility, sustainability, and ethical conduct in industrial design; pay attention to the relationship between people, objects and environments, and value intellectual and industrial property rights.
ID302	Apply strategic problem-solving skills to respond to systems-level, complex design problems.	3	3	2	2	1					1	2
	Relate industrial design practice to larger product systems and services.	3	3		2						1	2
	Transfer design research into actionable design directions.		2	1	1	2		3				
ID331	Define the concept of "business" in general and outline its various features.							2	1			1
	Explain the role of the designer working with or within a company.											
	Perform the business communication skills, such as: write business letters and job applications, prepare CVs and portfolios for different purposes in different formats, and demonstrate how to succeed in the interviews.						1				3	
	Apply the necessary steps of setting up different forms of industrial design related business.						2				1	
ID341	Employ codes of conduct during the personal professional practice.											3
	Relate the legal aspects with certain industrial design cases.											3
	Analyze specified designed products from a critical standpoint.								2			
	Explain design activity in relation to broader contexts of social, cultural, historical and political phenomena.								1		3	2
ID381	Interpret the meanings of existing design works by making use of semiotic & rhetorical frameworks.				2						1	
	Employ concepts and vocabulary that are introduced by the course content in discussing the significance of designed artefacts.								2			
	Synthesize knowledge and insight gained from the course contents to define a broader vision for design in contemporary and future societies.								2		3	2
	Explain the relationship between properties of products/systems and users' physical/cognitive capabilities and limitations						3		3			
ID362	Classify diverse methods of user research.			3		3						
	Apply user research methods which are relevant in user-design process.			3	3	3				3		
	Plan research protocols for diverse design cases.								3	3		
	Describe core concepts required for literacy of scientific research.								2			
ID399	Interpret design research in relation to scientific research.								2			
	Appraise the value of diverse research cases in the product development process.				2	2			3			
	Select appropriate primary and secondary design research methods.								2			
	Manage a design project from defining research questions to planning, collecting and analysing data.		2	1	2	3	2	1				
ID401	Report design research findings in appropriate formats.										2	
	Synthesize research findings into design insights to support design decisions			2	3	3	2					
	Set down the technical specs and requirements for a design idea scheduled for production.				2		2		2	2		
	Evaluate the role of product design and designers and their function among other professions within the industrial division of labour.							2		2		
ID402	Develop work skills, habits and attitudes in conformity with safety rules and regulations in workshop practice.							2		2	2	
	Develop communication skills needed in the manufacturing environment.							2		2	2	
	Identify materials and production technologies essential for industrial design activity.								2	2		
	Integrate knowledge and criteria of manufacturing into the process of new product development.			2						2		
ID499	Conduct preliminary research in order to understand the design problem at hand, and analyze and present the findings competently.		3		2						2	
	Develop a point of view over the design problem in order to make it familiar/suitable to his/her design approach.										2	
	Select and apply design tools/methods suitable to the design problem.	2	3	2								
	Use appropriate media to share phases throughout the design process.									1		
ID311	Complete the design process on-time by having all the requirements fulfilled, and presents it verbally and visually, accompanied by a comprehensive design progress report.	2								3		
	Outline their own design knowledge, skills and preferences, and select the appropriate sector to work with.			2	2	3				2		
	Manage to work with professional parties on a real-time design project.			2	2	3				2		
	Interpret the design problem provided by the external partner and redefine it according to his/her design approach.	3	3			3		2				
ID320	Use design terminology, and visualizations skills effectively to communicate with the people in the professional environment.									3		
	Use appropriate media to share phases throughout the design process with the instructors and the external partner.			2	1					3		
	Complete the design process on-time by having all the requirements fulfilled, and presents it verbally and visually (2D and 3D), accompanied by a comprehensive design progress report.	3	3		3					3		
	Relate design theory and practice.				2				1			
ID332	Appraise the industrial design profession and its function among the other professions.							2				
	Develop work habits and attitudes necessary for professional success.							3			2	
	Develop communication skills needed in the professional environment.									3		
	Outline after-graduation career opportunities.								1			
ID332	Evaluate the work experience.							2				
	Identify model making methods, equipment, tools, and materials.			2	1				3	2		
	Assemble various model making techniques and modelling materials for different design purposes.			2					3	2		
	Distinguish the types of models used in industrial design process.			2					2	1		
ID332	1. describe basic definitions of sustainability and contemporary sustainable design.										2	2
	2. recognize current ecological issues.										3	1
	3. develop critical perspective towards current practice of designing products and systems.						1					2
	4. apply critical thinking skills in compliance with sustainable living practices.	1			1		1					2
ID332	Describe what "form" is and exemplify the types of form according to different aspects of it.	3								3		
	Explain the historical background of the form from the aesthetics point of view.				1						1	
	Recognize and trace the roots of trends of form in design history.				1						1	
	Assess the role of form in the product's existence.	1			2					2		
ID332	Demonstrate the ability to form anything for a specific purpose by using the knowledge on the different form characteristics.	3		2	2				2	2		

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ID410	Describe key concepts related to traditional and generative AI.							2			2	
	Reflect on the societal and economic impact of AI technology and ethical considerations.							2				3
	Utilise LLMs and multimodal AI tools for design research, problem definition and ideation.		2	2								
	Devise diverse digital design tools for AI-supported tasks. Interpret the impact of AI technologies on the design profession.			2						3		
ID430	1. Comprehend the definitions and models of user experience.				1	2						
	2. Distinguish the concept of user experience from traditional human factors and usability.				2	2						
	3. Classify methods of user experience research.				2	2						
	4. Transfer user insights into actionable design directions.	3	3	2	3	3				3		
	5. Apply design thinking and user-centred design methodology in development of interactive products and systems.	3	3	2	3	3				3		