

## MAPPING OF PROGRAM LEARNING OUTCOMES (PLOs) WITH COMPLEX ENGINEERING PROBLEMS (CEPs)

PLOs		SDP I PRESENTATION	SDP II PRESENTATION	SDP II DEMONSTRATION	SDP I- SDP II REPORT	CEPs			
						WP1	WP2	WP3	EA1
PLO 1	Engineering Knowledge	<b>R1</b> Subject Knowledge WP1: Depth of knowledge	<b>R1</b> Subject Knowledge WP1: Depth of knowledge			✓			
PLO 2	Problem Analysis	<b>R2</b> Problem Statement WP1: Depth of knowledge WP3: Depth of analysis			<b>R1</b> Literature Review & Problem Statement WP1: Depth of knowledge	✓		✓	
PLO 3	Design/Development of solutions	<b>R3</b> Project Design Program WP1: Depth of knowledge WP3: Depth of analysis	<b>R2</b> Project Demonstration WP1: Depth of knowledge WP3: Depth of analysis	<b>R1</b> Quality and Coding Standards WP2: Range of conflicting requirements	<b>R2</b> Methodology WP2: Range of conflicting requirements	✓	✓	✓	
PLO 4	Investigation	<b>R4</b> Analysis and Approach WP1: Depth of knowledge	<b>R3</b> Investigation WP1: Depth of knowledge		<b>R3</b> Result & Conclusion WP1: Depth of knowledge	✓			
PLO 5	Modern Tool Usage			<b>R2</b> Modern Tool Usage WP1: Depth of knowledge	<b>R4</b> Implementation & Testing WP1: Depth of knowledge	✓			
PLO 6	The Engineer and Society		<b>R4</b> Impact of engineering solutions in a global, economic, environmental and societal context.				✓		

			WP2: Range of conflicting requirements						
PLO 7	Environment and Sustainability		<b>R5</b> Project Impact WP1: Depth of knowledge		<b>R5</b> Project Sustainability Impacts WP2: Range of conflicting requirements	✓	✓		
PLO 8	Ethics		<b>R6</b> Professional ethical values  WP1: Depth of knowledge	<b>R3</b> Originality WP1: Depth of knowledge	<b>R6</b> Formatting Style and similarity index WP1: Depth of knowledge	✓			
PLO 9	Individuals and Team work	<b>R5</b> Team work  EA1: Range of resources	<b>R7</b> Team Work  EA1: Range of resources						✓
PLO 10	Communication	<b>R6</b> Presentation and Viva EA1: Range of resources	<b>R8</b> Presentation and Viva EA1: Range of resources	<b>R4</b> Ways of Demonstration WP1: Depth of knowledge	<b>R7</b> Language and Grammar, Formatting Style WP1: Depth of knowledge	✓			✓
PLO 11	Project Management	<b>R7</b> Project Schedule and Milestone EA1: Range of resources		<b>R5</b> Completeness and Accuracy WP1: Depth of knowledge	<b>R8</b> Completeness and Accuracy WP1: Depth of knowledge	✓			✓
PLO 12	Lifelong Learning	<b>R8</b> Novelty and Creativity WP3: Depth of analysis		<b>R6</b> Novelty and Creativity WP3: Depth of analysis				✓	