

P D A College of Engineering  
**B.E. in Industrial and Production Engineering**  
 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)  
 Scheme of Teaching and Examination AY 2024-2025 (Effective from the academic year 2021-22)

**V - SEMESTER**

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
					Theory Lecture L	Tutorial T	Practical/ Drawing P	Self-Study S	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	HSMS/PC	22HU51	Entrepreneurship, Management and Finance / Professional Core Course	TD-Respective Dept. PSB- Respective Dept.	3	0	0		03	50	50	100	3
2	IPCC	22IP52	Work System Design	TD-Respective Dept. PSB- Respective Dept.	2	2	2		03	50	50	100	4
3	PCC	22IP53	Quality Assurance & Reliability (QA & R)	TD-Respective Dept. PSB- Respective Dept.	4	0	0		03	50	50	100	4
4	PCCL	22IPL54	QA & R laboratory	TD-Respective Dept. PSB- Respective Dept.	0	0	2		03	50	50	100	1
5	PEC	22IP554	Industry 4.0	TD-Respective Dept. PSB- Respective Dept.	3	0	0		03	50	50	100	3
6	PROJ	22IPMP56	Mini-Project	TD-Respective Dept. PSB- Respective Dept.	0	0	4		-	50		50	2
7	AEC	22RMI57	Research Methodology and IPR	Any Department	2	2	0		03	50	50	100	3
8	BSC	22ES58	Environmental Studies	TD:CV/Env/Chem PSB:CV	2	0	0		03	50	50	100	2

9	NCCMC	22NS59	Mandatory Course	NSS coordinator	0	0	2			50		50	0
		22PH59	Mandatory Course	Physical Education Director									
		22YO59	Mandatory Course	Yoga Teacher									
					<b>16</b>	<b>04</b>	<b>10</b>		<b>Total</b>	<b>450</b>	<b>350</b>	<b>800</b>	<b>22</b>

<b>Professional Elective Course</b>			
<b>22IP551</b>	<b>Engineering Economics</b>	<b>22IP554</b>	<b>Industry 4.0</b>
<b>22IP552</b>	<b>Human Resource Management (HRM)</b>	<b>22IP555</b>	<b>Fundamentals of Robotics and Applications</b>
<b>22IP553</b>	<b>Materials management</b>		
<b>PCC: Professional Core Course , PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course(Non-credit), AEC: Ability Enhancement Course</b>			