



B.E DEGREE EXAMINATIONS: NOV/DEC 2022

(Regulation 2018)

Seventh Semester

AERONAUTICAL ENGINEERING

U18AEE0220: Product Lifecycle Management

COURSE OUTCOMES

CO1:	Apply concepts of product lifecycle management and visioning
CO2:	Apply relative importance of product concepts, processes and workflow
CO3:	Apply principles of collaborative product development
CO4:	Outline considerations in system architecture understand the industrial process
CO5:	Apply product lifecycle management strategy and assessment
CO6:	Apply the infrastructure assessment, assessment of current systems and applications.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	List the stages of Product lifecycle.	CO1	[K ₁]
2.	List the benefits of PLM.	CO1	[K ₂]
3.	Mention few characteristics of Maturity level in PLM.	CO2	[K ₂]
4.	What is the importance of Feasibility Analysis?	CO2	[K ₂]
5.	With example, explain the concept of Smart Parts.	CO3	[K ₂]
6.	Explain: Engineering Bill of Material.	CO3	[K ₂]
7.	Explain the term "Product Data".	CO4	[K ₂]
8.	List the Importance of Product Data in PLM.	CO4	[K ₂]
9.	What is Strategy?	CO5	[K ₁]
10.	List the five success factors for ERP Projects.	CO6	[K ₂]

Answer any FIVE Questions:-

PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	Discuss the threats of product lifecycle management with a neat sketch.	CO1	[K ₂]
12.	Explain the elements of Product Lifecycle Management in detail with a neat	CO2	[K ₂]

		sketch.			
13.		Explain various terms used in Engineering Change Management in detail and also explain the roles each coordinator involved in the progress of ECO.		CO3	[K ₂]
14.	a)	Explain the various types of Product Data with example.		CO4	[K ₂]
	b)	Elaborate on the types of product information models and their Applications.		CO4	[K ₂]
15.	a)	Explain the important parameters involved in the PLM infrastructure assessment	10	CO6	[K ₃]
	b)	Explain the importance of assessment of current systems and applications in PLM assessment process	6	CO6	[K ₂]
16.		Describe the business drivers for Product Lifecycle Management in detail.		COL	[K ₂]

Please indicate knowledge level (K₁toK₆) and Course Outcome level (CO1 to CO5) against each question for each subdivision.