SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

Siddharth Nagar, Narayavanam Road, PUTTUR-517 583
QUESTION BANK (DESCRIPTIVE)

Subject with Code: CAPP (19ME0353)   **Course & Branch: B. Tech-CE&AGE**
Year/ Sem   : III-B. Tech & II-Sem   **Regulation   : R19**

UNIT I

1		Define process planning? Illustrate the various steps in process planning.	L2	CO1	12M
2	a	Write the various approaches to process planning.	L6	CO1	6M
	b	Interpret the role of process planning in the manufacturing cycle?	L4	CO1	6M
3	a	Point out the information required for process planning system?	L4	CO1	6M
	b	Mention the objectives of process planning.	L1	CO1	6M
4		Compare computer aided process panning with process planning.	L2	CO1	12M
5		Describe the structure of automated process planning system? Draw the structure of computer aided process planning.	L3	CO1	12M
6	a	Elucidate the objectives of feature recognition in CAPP with example.	L3	CO1	6M
	b	List the approaches of feature recognition in CAPP.	L6	CO1	6M
7		What is CAPP? List out the benefits of CAPP.	L5	CO1	12M
8		State the different steps in CAPP.	L2	CO1	12M
9		Explain how to develop CAPP with neat sketch.	L3	CO1	12M
10	(a)	Describe the methods in CAPP.	L1	CO1	6M
	(b)	Mention the advantages and disadvantages of CAPP.	L5	CO1	6M

UNIT II

1	(a)	Describe the importance of generative CAPP?	L3	CO2	6M
	(b)	Discuss about automation of logical decisions.	L1	CO2	6M
2		Detail out the generative approach in computer aided process planning system.	L2	CO2	12M
3	(a)	How to develop manufacturing knowledge based system explain?	L3	CO2	6M
	(b)	State the implementation of the generative CAPP.	L1	CO2	6M
4		Write about knowledge based system and inference engine?	L6	CO2	12M

5		Illustrate in details the benefits of generative CAPP.	L4	CO2	12M
6		Describe the variant CAPP in detail.	L2	CO2	12M
7	(a)	Designate the significance of retrieval CAPP system?	L1	CO2	6M
	(b)	Illustrate the implementation of retrieval CAPP system.	L2	CO2	6M
8		What are the advantages and disadvantages of retrieval CAPP system? Give the applications?	L5	CO2	12M
9		Explain the various approaches to CAPP in detail with neat sketches.	L6	CO2	12M
10		Differentiate between generative and variant CAPP system.	L4	CO2	12M

UNIT III

1		Deliberate the various implementation techniques for CAPP system? Explain in detail.	L5	CO3	12M
2	(a)	Point out what is MIPLAN?	L3	CO3	6M
	(b)	Deduce the limitations and applications of MIPLAN?	L6	CO3	6M
3		Discuss the role of MIPLAN system in CAPP in detail.	L4	CO3	12M
4	(a)	Explain briefly about The Bottom-up and Top –Down approach.	L1	CO3	6M
	(b)	Deduce the applications of part family	L5	CO3	6M
5		Demonstrate the criteria for selecting a CAPP system.	L3	CO3	12M
6		Define part family? Explain in detail about part family with various methods.	L1	CO3	12M
7		What is GT? List the advantage and disadvantage of Group Technology.	L5	CO3	12M
8		Express about CAPP? Illustrate in details the benefits of CAPP.	L2	CO3	12M
9	(a)	Generalize few of the CAPP programming languages.	L6	CO3	6M
	(b)	Write the benefits of MRP-I.	L2	CO3	6M
10	(a)	Differentiate between MRP-I and MRP-II.	L4	CO3	6M
	(b)	Summarize the benefits of MRP-II.	L2	CO3	6M

UNIT IV

1		Explain the three phases of shop floor control in detail.	L6	CO4	12M
2	(a)	Summarize the importance of capacity planning.	L4	CO4	6M
	(b)	List out the benefits of capacity planning.	L5	CO4	6M
3		Illustrate in details the benefits of CIM.	L4	CO4	12M

4		What is MRP? Explain detail about MRP-I and list the various advantages and limitations.	**L2**	**CO4**	**12M**
5		Express about MRP-II and summarize the various advantages and disadvantages.	**L5**	**CO4**	**12M**
6	(a)	Define Automation? Describe the automation strategies in detail.	**L3**	**CO4**	**6M**
	(b)	Elaborate the term CAD and CAM? Illustrate the CAD/CAM product cycle with neat sketch.	**L2**	**CO4**	**6M**
7		What is the scope of CIM? With neat sketch explain the main elements of CIM system.	**L3**	**CO4**	**12M**
8		Explain in detail about NC, CNC and DNC system with block diagrams?	**L2**	**CO4**	**12M**
9	(a)	Differentiate CNC and DNC control system.	**L4**	**CO4**	**6M**
	(b)	What is part programming? Write its types.	**L1**	**CO4**	**6M**
10		Describe about Group Technology? Summarize the benefits of GT.	**L5**	**CO4**	**12M**

UNIT V

1		What is FMS? Discuss in detail the components of an FMS.	**L2**	**CO5**	**12M**
2		Discuss the benefits and limitations of an FMS.	**L5**	**CO5**	**12M**
3		Explain different types of layouts configuration of FMS.	**L6**	**CO5**	**12M**
4		Designate about material handling system with neat sketch?	**L3**	**CO5**	**12M**
5		Explain (a) Work station (b) Material handing (c) Computer control system	**L1**	**CO5**	**12M**
6		Deduce the applications, advantages and disadvantages of a FMS.	**L6**	**CO5**	**12M**
7		Describe in detail about adaptive control machining systems.	**L1**	**CO6**	**12M**
8		Discuss the concept of adaptive control system and also explain its types.	**L3**	**CO6**	**12M**
9		Point out the applications of adaptive control in detail.	**L4**	**CO6**	**12M**
10		Generalize about computer process monitoring and computer process control.	**L2**	**CO6**	**12M**

Prepared By Dr. P. RAMESH