

Reg. No:

--	--	--	--	--	--	--	--	--	--

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

B.Tech III Year I Semester Supplementary Examinations June-2024

CAD/CAM

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- | | | | | |
|---|---|--|----|----|
| 1 | a | Draw the product cycle and CAD/CAM Product cycle with neat sketch. | L2 | 6M |
| | b | Explain the product cycle and CAD/CAM product cycle. | L2 | 6M |

OR

- | | | | | |
|---|--|--|----|-----|
| 2 | | Briefly explain the term scaling, translation and rotation used in Graphics. | L2 | 12M |
|---|--|--|----|-----|

UNIT-II

- | | | | | |
|---|--|---|----|-----|
| 3 | | Discuss Various types of Geometric modeling with neat sketches. | L6 | 12M |
|---|--|---|----|-----|

OR

- | | | | | |
|---|--|---|----|-----|
| 4 | | Describe briefly Parametric and Non Parametric representations. | L2 | 12M |
|---|--|---|----|-----|

UNIT-III

- | | | | | |
|---|--|---|----|-----|
| 5 | | Illustrate brief about NC Motion control systems. | L2 | 12M |
|---|--|---|----|-----|

OR

- | | | | | |
|---|---|---|----|----|
| 6 | a | Briefly explain about NC Coordinate systems. | L2 | 6M |
| | b | Explain various applications of NC and CNC Systems. | L3 | 6M |

UNIT-IV

- | | | | | |
|---|--|--|----|-----|
| 7 | | Illustrate FMS and explain about material handling systems with neat sketch. | L2 | 12M |
|---|--|--|----|-----|

OR

- | | | | | |
|---|---|---|----|----|
| 8 | a | What is mean by Machine cell design and explain it? | L3 | 6M |
| | b | Discuss optical non-contact inspection methods. | L2 | 6M |

UNIT-V

- | | | | | |
|---|--|--|----|-----|
| 9 | | Illustrate the Generative CAPP type system with neat sketch. | L2 | 12M |
|---|--|--|----|-----|

OR

- | | | | | |
|----|--|---|----|-----|
| 10 | | Explain briefly MRP-II with neat sketch and explain CIM Benefits. | L2 | 12M |
|----|--|---|----|-----|

*** END ***

