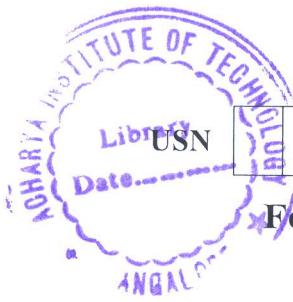


CBCS SCHEME

16/17MPD423



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Fourth Semester M.Tech. Degree Examination, June/July 2019 Agile Manufacturing

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is agile manufacturing? Explain its competitive environment for the future. (08 Marks)
b. Explain the conceptual framework for agile manufacturing. (08 Marks)

OR

- 2 a. Explain the four core concepts in agile manufacturing. (08 Marks)
b. Briefly explain interdisciplinary design methodology in agile manufacturing. (08 Marks)

Module-2

- 3 a. Explain the change implication of agile manufacturing. (08 Marks)
b. Briefly explain product costing. (08 Marks)

OR

- 4 a. Explain measurement and control systems in agile manufacturing. (08 Marks)
b. Explain control technological and design paradigms in agile manufacturing. (08 Marks)

Module-3

- 5 a. Briefly explain enterprise design in agile manufacturing. (08 Marks)
b. Explain organizational design as a model for the design of agile manufacturing. (08 Marks)

OR

- 6 a. Explain enterprise design process and its insights into design processes in agile manufacturing. (08 Marks)
b. What is interdisciplinary design? Explain its implications in agile manufacturing. (08 Marks)

Module-4

- 7 a. Explain a conceptual framework for the design of skill and knowledge enhancing technologies. (08 Marks)
b. Explain the role of knowledge based systems in agile manufacturing. (08 Marks)

OR

- 8 a. Explain scheduling aspects as an example of a technology oriented approach. (08 Marks)
b. Explain technology design strategies in agile manufacturing. (08 Marks)

Module-5

- 9 a. Briefly summarize the design requirements for machine tool systems. (08 Marks)
b. Give the historical overview in enhancing design of skill and knowledge technologies for machine tool systems. (08 Marks)

OR

- 10 a. Explain the cutting technology consideration for machine-tool systems. (08 Marks)
b. Explain the future developments in agile manufacturing. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.