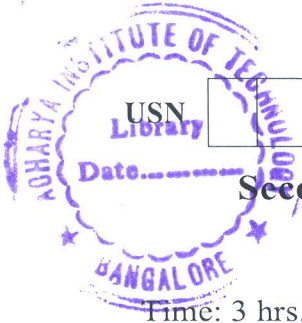


CBCS SCHEME



18MPD253

Second Semester M.Tech. Degree Examination, June/July 2019

Lean Manufacturing Systems

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What are the steps required for implementing JIT? Explain. (10 Marks)
b. Explain the Japanese philosophy of Elimination of Waste. (10 Marks)

OR

- 2 a. Explain the JIT application for line flows. (10 Marks)
b. With the help of a case study, discuss the implementation of JIT. (10 Marks)

Module-2

- 3 a. Illustrate production ordering Kaban, with an example. (10 Marks)
b. Explain Kaban, with an example. (10 Marks)

OR

- 4 a. Explain with a sketch, the steps involved in using a withdrawal Kaban and a production ordering Kaban. (10 Marks)
b. Explain the problems and counter measures in applying Kaban system to subcontractors. (10 Marks)

Module-3

- 5 a. Discuss the factors that led to birth of lean production in Japan. (10 Marks)
b. Discuss the following aspects of lean production:
(i) Company as community (ii) Changes in consumer demands (10 Marks)

OR

- 6 a. List and explain the major concept used to shorten the setup time. (10 Marks)
b. Explain the steps followed to reduce the work force in Toyota with an example. (10 Marks)

Module-4

- 7 a. Explain the standardization of operations. (10 Marks)
b. Explain the advantages of job rotation. (10 Marks)

OR

- 8 a. Describe the General Motor's Framingham classic mass production plant, with examples. (10 Marks)
b. With reference to NUMMI Plant, explain the concept of diffusing lean production. (10 Marks)

Module-5

- 9 a. How are the following aspects managed by Japanese Groups?
Explain (i) Finance (ii) Career ladders. (10 Marks)
b. Explain the advantages of Global enterprises. (10 Marks)

OR

- 10 a. Elaborate "Life time Employment". (10 Marks)
b. Discuss the aspects of quality and productivity in full circle with reference to the prospects for catching up. (10 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.