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200919

BACHELOR OF VOCATION

Automotive Manufacturing

Subject: Manufacturing Automation and Ergonomics

Subject Code: BBME-310

Semester: Sixth

September 2020

Theory (External): 35 Marks

Time: 03 hours

INSTRUCTIONS TO THE STUDENTS

1. Read the questions carefully and write the answers in the answer sheets.
2. Wherever necessary, the diagram drawn should be neat and properly labelled.
3. This questions paper comprises of 6 questions out of which student need to attempt any 3 questions.
4. All questions carry equal marks.
5. The time allotted will be 3 hours for examinations including time of downloading of question paper to emailing of answer books to the concerned Dean/IC.

ESSAY TYPE QUESTIONS

1. Explain the types and strategies of automation with applications related to manufacturing industries.
2. Describe the methods of automated flow lines with suitable examples related to industries.
3. Explain the Latest technologies being employed in Industry 4.0 era for achieving higher efficiency with suitable example.
4. Describe the working of Manufacturing Execution systems(MES) with neat and clean diagram along with applications related to manufacturing industries.
5. Define work study and its techniques with suitable example and applications related to manufacturing industry.
6. Define the meaning of Ergonomics and discuss the Evolution of Ergonomics with suitable examples.

*****END OF PAPER*****