

COIMBATORE INSTITUTE OF TECHNOLOGY

(A Government Aided Autonomous Institution Affiliated to Anna University, Chennai)

COIMBATORE - 641014

DEPARTMENT OF CHEMICAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Date: 05.12.2020 (Saturday)

Dr.M.Thirumarimurugan, The chairman, Board of Studies extended a warm welcome to all the participants present in the virtual meeting held on 5th December 2020 by 10:30 am and he thanked them for sparing their precious time to participate in the meeting. At the outset chairman gave brief introduction about subject as well as industry experts and informed the agenda of meeting. The main agenda of meeting is to finalise the B.Tech. Chemical Engineering Curriculum and syllabi 2019 from 5th semester to 8th semester.

The following are the comments and suggestions provided by the external experts during the meeting:

1. There was a suggestion and discussion regarding duration and evaluation pattern of internship. It has been noticed that 2 weeks of internship will not be sufficient for 2 credits. Therefore the expert members suggested to increase the duration of internship period from 6 to 8 weeks.
2. It has been suggested to shift Process Modelling and Simulation from 6th to 7th semester.
3. It has been recommended by all the expert members to consider Chemical Process Safety as professional core course (in 6th semester) rather than an elective.
4. The title of the course "Reaction Engineering Laboratory" should be modified precisely as "Chemical Reaction Engineering Laboratory".
5. There was a suggestion to introduce an experiment relevant to absorption in Mass Transfer Laboratory.
6. The professional core course in 7th semester Chemical Process Industries shall be moved to earlier semester.

7. The title of the course “Process Equipment Design” will be modified as “Process Equipment Design and Drawing”.
8. There was a suggestion to retain the uniformity in the syllabus contents of Professional Elective courses.
9. It is recommended to revise the Latest Versions of Text Books and Reference Books in the syllabus.
10. Dr.T.K.Radhakrishnan have recommended to include the following Text Books for the subject Process Dynamics and Control.

Text Book1: Surekha Bhanot “Process Control: Principles and Applications” Oxford University Press, 2008.

Text Book2: J.A.Ramognoli and A.Palazoglu, Introduction to Process Control, Second Edition, CRC Press, 2012.

11. Dr.G.Pugazhenthii have suggested to remove the following Reference Book from the syllabus of subject titled “Nelson W.L., Petroleum Refinery Engineering, Fourth Edition, McGraw Hill, Auckland, 1985. Instead the book titled “J.H. Gary and G.E. Handwerk "Petroleum Refinery Technologies and Economics" can be taken as a preferred textbook.

12. It is recommended to change the title of elective subject “Computer Aided Design” as “Computer Aided Process Equipment Design”.

13. Dr.T.K.Radhakrishnan have suggested to include the following Textbook in the syllabus of elective course Computer Aided Process Equipment Design: “Introduction to Chemical Equipment Design Mechanical Aspects” by B.C. Bhattacharyya.

14. Dr.K.M.Meera Sheriffa Begum and Dr.T.K.Radhakrishnan have recommended to include following books in the syllabus of the relevant subjects:

- Process Modeling and Simulation - Amiya K Jana., Chemical Process Modeling and Computer Simulation, Prentice Hall India.
- Mass Transfer - N. Anantharaman, K. M. Meera Sheriffa Begum., Mass Transfer Theory and Practice, Prentice Hall.

- Mass Transfer - Chistie John Geankoplis., Transport Processes and Separation Process Principles, Prentice Hall.
- Chemical Process Calculations - Venkataramani, V. Anantharaman, N. Meera Sheriffa Begum, K.M., Process Calculations, Prentice Hall.

15. Sasikumar Balaraman have firmly recommended to introduce new subjects relevant to the following domains:

- Process Engineering
- Machine drawing exposure should be given to students
- Autocad drawing exposure
- 3D modelling development
- Basic concepts about centrifugal / Reciprocating compressors in chemical process industries.
- P&ID development
- Piping layout development



(Dr.M.Thirumarimurugan)
Chairman, BoS