

BOARD OF STUDIES MEETING

DATE : 22-07-2023  
 DAY : SATURDAY

TIME : 09:30 A.M  
 VENUE : M-229  
 Meeting Hall

Minutes of Meeting of Board of Studies in chemical Engineering held on 22-07-2023 in the Department of Chemical Engineering to approve B.Tech. Chemical Engineering curriculum & Syllabi under regulations 2023.

Members present

Signature

- |     |   |                  |
|-----|---|------------------|
| 1.  | Dr. M. Thirumanimurugan - Chairman      |                  |
| 2.  | Mr. CS. Sampath Kumar - Industry Expert |                  |
| 3.  | Dr. M. Anulmozhi - University Nominee   |                  |
| 4.  | Dr. A. Arunagiri - Subject Expert       |                  |
| 5.  | Dr. D. Prabhakaran - Member             | Preoccupied      |
| 6.  | Dr. V. M. Sivakumar - Member            | V.M. Sivakumar   |
| 7.  | Dr. T. Sivakumar - Member               |                  |
| 8.  | Dr. R. Azamudeen - Member               |                  |
| 9.  | Dr. A. Vivek Joe Bharath - Member       |                  |
| 10. | Mr. P. Babu - Member                    | P. Babu          |
| 11. | Dr. A. Gnanaprakasam - Member           | A. Gnanaprakasam |
| 12. | Dr. P. Sivakumar - Member               |                  |
| 13. | Mr. E. Sudalai Manikandan - Member      |                  |
| 14. | Dr. B. Uma Maheswari - Member           | B. Uma Maheswari |
| 15. | Dr. K. Ganesamoorthy - Member           |                  |
| 16. | Dr. S. Vasantha - Member                | S. Vasantha      |
| 17. | Ms. J. Asha - Member                    |                  |

# DEPARTMENT OF CHEMICAL ENGINEERING

## BOARD OF STUDIES

### MINUTES OF THE MEETING

**DATE: 22.07.2023**

**VENUE: DEPARTMENT MEETING HALL**

Meeting was commenced by Chairman, Board of Studies with the brief introduction of Industry expert, Academic experts and internal members. At the outset, he briefed two main agenda of meeting

1. To finalize the B.Tech. Chemical Engineering Curriculum and Syllabi for 2023 Regulations
2. To finalize the Curriculum and Syllabi of Vertical (Major/Minor) for the students admitted from academic year 2021-2022 onwards.

Further, Chairman emphasize the norms of the Anna University and the institute level guidelines implemented in CIT which are mentioned as follows:

- i). Total Credits for B.Tech. Chemical Regular should be in the range of 160-165.
- ii). Total Credits for B.Tech. Chemical Lateral Entry should be in the range of 120-125.
- iii). Each semester should be in the form of either in pattern1 (5 Theory + 2 Laboratory + 2 Mandatory Courses) or in pattern2 (6 Theory + 2 Laboratory + 2 Mandatory Courses)
- iv). There should be maximum of eight electives out of which two electives are under open elective category and the remaining six electives are under professional electives category.

In continuation to the Welcome address, B.Tech. Chemical Engineering Curriculum was presented by BoS coordinators. While presenting the curriculum, suggestions or recommendations given by the expert members are listed as follows:

1. Mr.CS.Sampath Kumar-I Industry Expert recommended to change 'Physics for Chemical Engineers' as 'Engineering Physics' with a due consent from Dr.S. Vasantha, Member BoS from Department of Physics.

2. There was a discussion to change the lab course (i.e) Language Laboratory. Based on the suggestions from Humanities department, it has been changed to English Communication Competency Laboratory.
3. There was a suggestion to set the syllabus of 'Differential Equations and Boundary Value Problems' by incorporating following modifications.
  - LTPC as 3003
  - Contents on Fourier Series and Transforms should be emphasized more than other transforms.
4. Mr.CS.Sampath Kumar had suggested to post graduate level courses such as 'Advanced Heat Transfer', 'Advanced Momentum Transfer' etc... under the list of Department specific value-added Courses
5. There was a unanimous suggestion from all the members to provide Code for Internship.
6. Dr.A.Arunagiri and Dr.M.Arul Mozhi have suggested to replace the subject (6<sup>th</sup> Semester) ' Soft Computing Techniques in Chemical Engineering as 'Computational Fluid Dynamics/Advanced Thermodynamics /Applied Mathematics in Chemical Engineering
7. There was a unanimous suggestion from all the members to provide Code for MiniProject.
8. Dr.A.Arunagiri has suggested to change 'E-3 Colloids and Interfacial Engineering' as 'E-3 Colloidal and Interfacial Engineering'.
9. Dr.A.Arunagiri has suggested to remove 'E-10 Process Engineering' that has multiple repeated units in relevance to core subjects.
10. Dr.A.Arunagiri has recommended to include Petrochemical Technology or Petroleum Refinery Engineering in the list of Professional Electives.
11. There was a suggestion to remove vertical-III (Industrial Bio technology) and the subjects under that vertical shall be merged with list of Professional Electives.
12. Dr.A.Arunagiri has given following Minor corrections for further refinement of syllabus
  - CO5 & CO6 shall be given to advanced level course such as courses in higher semester.
  - Only Four Course Outcomes are sufficient for courses from Sem-1 to Sem-4 so that desired level of attainment on Programme outcomes can be fulfilled.

- Advanced Process Control can be included as a separate Vertical in the curriculum
  - Fundamentals of Computing-II Should have some concepts on Python rather than R Programming.
  - Text Book titled on “Transport Operations and separation Process Principles - by Christie John Geankoplis” shall be included in Fluid Mechanics for Chemical Engineers subject.
  - Ternary Liquid Equilibrium experiment is repeated in two labs such Physical & Organic Chemistry Lab and Mass Transfer Laboratory.
  - Order of List of Experiments in Fluid Mechanics Lab should be modified in line with the arrangement of units in the syllabus of Fluid Mechanics theory.
  - Laboratory Manual can be included as either Text Book or Reference Book in Laboratory Courses.
  - Order of List of Experiments in Mechanical Operations Lab, Process Control lab & Mass Transfer Lab should be modified in line with the arrangement of units in the respective theory subjects.
  - Internship in CSIR Lab shall be promoted among the student’s community.
13. Mr.CS.Sampath Kumar have instructed us to include Soil Based Fertilizer or Green Technology subject or Soil Management Subject by signing MOU with Agri University Coimbatore.

#### 14. Overall Comments & Vote of Thanks

- Dr.M.Arulmozhi commented that overall curriculum and syllabi looks good and subjects are oriented with current technology development.
- Dr.A.Arunagiri have commented that entire chemical syllabus is very good.
- Mr.CS.Sampath Kumar commented that over all syllabus is good.

Finally, **Dr.V.M.SIVAKUMAR** have thanked all the members for their presence and valuable suggestions. Meeting was completed with good Dine and tea. Chairman invited all the members for the lunch.

  
22/07/2023  
**Dr.M.THIRUMARIMURUGAN**

**Dr. M. THIRUMARIMURUGAN**, Chairman, BoS  
Professor and Head  
Department of Chemical Engineering