



# SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

Pulloor, Kariapatti - 626 115

## DEPARTMENT OF CHEMICAL ENGINEERING

### Minutes of Board of Studies Meeting

Held on 5.09.2020

The sixth Board of Studies meeting for Chemical Engineering was held on 5.09.20 at 11.00 A.M. through Google meet.

The following members were present.

S.No.	Name	Designation	Status
1.	Dr. C. Marimuthu	Associate Professor & Head	Board Chairperson
2.	Dr.S. Sabarunisha Begum	Professor	Faculty member
3.	Dr.S. Vinodha	Professor	Faculty member
4.	Mr.M. Arul Jayan	Assistant Professor (Sr.Grade)	Faculty member
5.	Dr.M.Sethuram	Assistant Professor (Sr.Grade)	Faculty member
6.	Mr.S. Nagul Dev	Assistant Professor	Faculty member
7.	Mr.M. Dakshnamoorthy	Assistant Professor	Faculty member
8.	Mr.G. Selva Dhamodharan	Assistant Professor	Faculty member
9.	Mr.K. Dharmaprabu	Assistant Professor	Faculty member
10.	Mr. M.Shilmiya	Alumni	Alumni member
11.	Mr.Sivaprasath	Alumni	Alumni member
12.	Dr. M. Arulmozhi	Professor & Head Department of Petrochemical Technology, University College of Engineering, BIT Campus, Tiruchirapalli – 620024	University Nominee
13.	Dr. A. BabuPonnusamy	Associate Professor, Department of Chemical Engineering, VIT University, Vellore – 632014	External Expert (Academic)
14.	Mr. U. Rajaram	Manager, Reliance industries Jam Nagar,Gujarat	External Expert (Industry)

## **1. Department Vision, Mission, PEOs, POs, PSO & PSC**

Chairperson gave introduction and brief description about the department vision & mission, PEOs, POs PSOs, PSC, for the Chemical Engineering program and the same had been approved in the BOS meeting

## **2. Stakeholders feedback**

Chairperson briefed the various feedback from the stakeholders through PAC & DAB meeting and resolved to implement in the curriculum 2019, which had been approved by the board members.

### **2.1 Students Feedback**

- 2.1.1 Good balance between theory and practical classes
- 2.1.2 A course on Nano Science and Technology has to be included
- 2.1.3 Need for Computational Laboratory
- 2.1.4 Needs sufficient courses on Chemical Engineering Design
- 2.1.5 Needs revision in the course 15UCH302 organic chemistry

### **2.2 Employers Feedback**

- 2.2.1 New courses on Carbon Trading, Green Protocol / Global Warming can be included
- 2.2.2 A course on Mathematical Models in Chemical Engineering shall be included
- 2.2.3 Needs up-gradation of course 15UCH923 Chemical Process Plant Safety

### **2.3 Faculty - International Feedback**

- 2.3.1 A course on Extractive Metallurgy shall be included

### **2.4 Faculty Feedback**

- 2.4.1 A course on Nuclear Science and Technology has to be included
- 2.4.2 A course on Computational Fluid Dynamics has to be included
- 2.4.3 New courses on Environmental Impact Assessment shall be included

## **3. Inter Disciplinary Courses**

The Chairperson briefed the interdisciplinary courses offered in the Chemical Engineering program and the same has been resolved and approved in the BOS meeting. The programs includes

- Data Science for Engineers
- Waste to Energy Conversion

#### **4. Addition/Deletion of Courses/Topics**

The chairperson explained the Regulation 2019 curriculum and resolved to approve the following suggestions in the board.

#### **Suggestions from Experts:**

##### **4.1 Mr. U. Rajaram (Industry Nominee)** suggested to

- Include the topic 'Special type heat exchangers' in the course Heat Transfer offered in IV Semester
- Purchase educational version software's for the department

##### **4.2 Dr. M .Arul mozhi (Anna University Nominee)** suggested to

Include placement and learning in the mission statements of the department

- Refer IIChe Association and Petrochemical society for Program Specific Criteria.
- Maintain up-gradated lab facility while Computational related courses are offered
- Include Pharmaceutical Technology as a compulsory course for Chemical Engineering students
- Mention the latest edition of the text book in syllabus
- Remove some topics from Chemical Process Industries and make it less complicated

##### **4.3 Dr.A.Babu Ponnusamy (Academic Expert)** suggested to

- Include the applications of Chemical Engineering in Numerical Methods course (19UMA423)
- Consider higher studies in mission statement
- Include compressors and vacuum system in Heat Power Engineering
- Add theoretical flame temperature in combustion unit as a topic in Process Calculations.
- Focus only on materials related to Chemical Engineering Applications in the course Engineering Materials and Mechanics
- Add topics on advanced laws of thermodynamics and aspen plus applications in the course Chemical Engineering Thermodynamics

- Consider/add topics like reboiler, condensers and special type of heat exchangers in the course Heat Transfer (15UCH403)

### **5. Employability, Entrepreneurship & Skill Development Courses**

The Chairperson briefed the classification of courses for Employability, Entrepreneurship & Skill Development and resolved to approve in the board.

### **6. Value Added Courses**

The Chairperson briefed the following value added courses in the curriculum and resolve to approve in the board.

1. MATLAB for Chemical Engineers
2. Simulation on Process Fundamentals
3. ANSYS – CFD
4. CHEMCAD
5. ASPEN – HYSYS

### **7. Examiners (Question paper setting, Paper Evaluation, Project Viva voce)**

The Chairperson presented the list of examiners for question paper setting, paper evaluation, project viva voce and the same has been accepted and approved by the board.

### **8. New Courses under Curriculum 2019**

The Chairperson briefed the following new courses included in the curriculum 2019 and resolved to approve in the board.

<b>S.No</b>	<b>Course Title</b>
1	Communication Skills for Professionals
2	Introduction to Chemical Engineering
3	Process Chemistry (Integrated)
4	Mass Transfer
5	Creative Thinking & Innovations
6	Process Instrumentation Dynamics & Control
7	Process Computation Laboratory
8	Waste water treatment & recycling
9	Drugs & pharmaceutical technology
10	Chemical Process Plant Safety

### 9. The Overall Course Structure of the Curriculum 2019

Category	No of Courses	SII	
		Credit	Credit %
Humanities & Social Science (HS)	11	14.5	8%
Basic Science (BS)	12	31.5	18%
Engineering Science (ES)	7	19	11%
Professional Core (PC)	21	65	38%
Professional Elective (PE)	6	18	10%
Open Elective (OE)	4	12	7%
Projects (P)	4	14	8%
<b>TOTAL</b>	<b>65</b>	<b>174</b>	<b>100%</b>

Semester	I	II	III	IV	V	VI	VII	VIII	TOTAL
<b>Total Credit of Courses</b>	<b>23</b>	<b>20.5</b>	<b>21</b>	<b>24</b>	<b>22.5</b>	<b>24.5</b>	<b>24.5</b>	<b>14</b>	<b>174</b>

The Chairperson thanked the members for their contribution and suggestions in framing the curriculum and syllabi in Regulation 2019 for B.Tech. Chemical Engineering under Autonomous Regulations.



HEAD OF THE DEPARTMENT

DEPARTMENT OF CHEMICAL ENGINEERING

**Chairperson**  
**Board of Studies**  
**Chemical Engineering**  
**Sethu Institute of Technology,**  
**Pulloor, Kariapatti - 626 115.**