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SETHU INSTITUTE OF TECHNOLOGY

Pulloor, Kariapatti – 626 115

DEPARTMENT OF CHEMICAL ENGINEERING





Date:12.9.2019

Semester: ODD 2019 – 20

BOARD OF STUDIES MEMBERS SEPTEMBER 2019- ATTENDANCE

S.No.	Name	Designation	Status	Signature
1.	Dr. C. Marimuthu	Associate Professor & Head	Board Chairperson	<i>C. Marimuthu</i>
2.	Dr.S.Vinodha	Professor	Faculty member	<i>Dr. S. Vinodha</i>
3.	Dr. S.Sabarunisha Begam	Professor	Faculty member	<i>Dr. S. Sabarunisha Begam</i>
4.	Mr.Arul Jayan.M	Assistant Professor (Sr.Grade)	Faculty member	<i>Mr. Arul Jayan.M</i>
5.	Dr.M.Sethuram	Assistant Professor (Sr.Grade)	Faculty member	<i>Dr. M. Sethuram</i>
6.	Dr.Vidhya Raguraman	Assistant Professor (Sr.Grade)	Faculty member	<i>Dr. Vidhya Raguraman</i>
7.	Mr.Prabhu Sankar	Assistant Professor	Faculty member	<i>Mr. Prabhu Sankar</i>
8.	Mr. Abdul Ajmal	Assistant Professor	Faculty member	<i>Mr. Abdul Ajmal</i>
9.	Mr.Nagul Dev	Assistant Professor	Faculty member	<i>Mr. Nagul Dev</i>
10.	Mr.Datchinamoorthy	Assistant Professor	Faculty member	<i>Mr. Datchinamoorthy</i>
11.	Mr.Selva Dhamodharan	Assistant Professor	Faculty member	<i>Mr. Selva Dhamodharan</i>
12.	Mr.Dharmaprabu	Assistant Professor	Faculty member	<i>Mr. Dharmaprabu</i>
13.	Mr. Sivaprasad V	IV YEAR	Student member	<i>Mr. Sivaprasad V</i>
14.	Mr.Shanker ganesh	IV YEAR	Student member	<i>Mr. Shanker ganesh</i>
15.	Mr.Syed Oli	II YEAR	Student member	<i>Mr. Syed Oli</i>
16.	Mr.Veeraraghavan	II YEAR	Student member	<i>Mr. Veeraraghavan</i>
17.	Mr. Ganesan	III YEAR	Student member	<i>Mr. Ganesan</i>
18.	Dr. M. Arulmozhi	Professor & Head Department of Petrochemical technology, University College of Engineering, BIT Campus, Tiruchirapalli - 620024	University Nominee	<i>Dr. M. Arulmozhi</i>
19.	Dr. A. Babu Ponnusamy	Associate Professor, Department of Chemical Engineering, VIT University, Vellore - 632014	External Expert (Academic)	<i>Dr. A. Babu Ponnusamy</i>

20.	Mr.R.Senthil Appaian	Regional manager, Denora water technology, Chennai	External Expert (Industry)	
21.	Mr.K.Krishnakanth	Alumni	Alumni student member	

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 of computational laboratory
- 2.1.4 Needs sufficient courses on chemical engineering design
- 2.1.5 Needs revision of the course 15UCH302 organic chemistry

2.2 Employers Feedback

- 2.2.1 New courses on Carbon trading, Green Protocol / Global warming has to 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.Senthil Appaian (Industry Nominee) suggested to include the topics below in the subject Heat Power Engineering to be offered in III Semester

- Refrigeration & Compression
- The cycles such as Carnot can be reduced
- Topics related to solar power plants shall be included.

4.2 Dr.M.ArulMozhi (Anna University Nominee) suggested

- To frame the syllabus of the course Chemical Process Industries (Semester IV) with high relevance to the industries of chemical processes.
- To transfer the Chemical Process plant Safety course from professional elective to professional core.
- To have uniform credit distribution for practical courses i.e., 1.5 credits

4.3 Dr.A.Babu Ponnusamy (Academic Expert) suggested

- Softwares like Solid works, 3Ds Max to be included in the curriculum 2019
- To include elective subjects from Semester III onwards
- For the integrated courses the credit distribution shall be given as $3 + 1.5 = 4.5$
- To change the subject name of Numerical methods to Computational methods in chemical engineering

5. Employability, Entrepreneurship & Skill Development Courses.

The Chairperson briefed about 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)

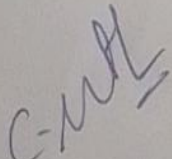
The Chairperson presented the list of examiners for question paper setting, paper evaluation, project viva voce and the same has been accepted and approved by the board.

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.

S.No	Course Title
1	Induction Programme
2	Biology for Engineers
3	Energy Science and EVS Lab
4	Process Chemistry (Integrated)
5	Heat Power Engineering
6	Engineering Materials and Mechanics
7	Gender Equality
8	Seminar
9	Interpersonal Skills Lab
10	Process Equipment Design
11	Chemical Process Plant Safety
12	Indian Constitution/Essence of Indian Traditional Knowledge
13	Process Computation Lab
14	Creative Thinking and Innovation
15	Process Modeling and Simulation
16	Human Values & Professional Ethics
17	Process Design and Simulation Lab
18	Summer Internship
19	Comprehensive Viva
20	Technical Project and Product Development

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


Dr.C. Marimuthu



SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

Pulloor, Kariapatti - 626 115

DEPARTMENT OF CHEMICAL ENGINEERING

Action taken report of 5th Board of Studies Meeting Held on 12.09.2019

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

S. No	Suggestion given	Action taken
1	The department vision & mission, PEOs, POs PSOs, PSC, for the chemical engineering program were presented	It is resolved to approve the same with no modification

2: Stakeholders feedback

2.1 Students Feedback

S. No	Name & Designation	Feedback	Action taken
1	Mr.Sivaprasad, Final Year, Chemical Engineering	Good balance between theory and practical classes to be needed	Laboratory course credit has been increased from 1 to 1.5 in R 2019 The following courses 19UCH301 Process Chemistry 19UCH303 Fluid Flow Operations 19UCH402 Heat Transfer 19UCH403 Mechanical Operations 19UCH602 Process Instrumentation, Dynamics & Control has been combined as integrated courses in Regulations 2019.
2.	Ms.A.Hameeda Final Year, Chemical Engineering	A course on Nano Science and Technology to be included	The course 19UCH920 Nano Technology has been included in the Professional Electives in R2019

		Additional computational lab courses to be included	The following course 19UCH605 Process Computation Lab 19UCH703 Process Design and Simulation Lab has been included in R 2019
3.	Mr.S.Amuthan Third Year, Chemical Engineering	Need sufficient courses on chemical engineering design	The following course 19UCH603 Process Equipment Design has been included in R2019
4.	Mr.Syed Oli, Second Year, Chemical Engineering	Needs up gradation of Organic Chemistry Course.	The course 19UCH301 Process Chemistry has been updated as integrated course in R 2019

2.2 Employer Feedback

S. No	Name & Designation	Feedback	Action taken
1.	Mr.Vivek.E.S, Plant Manager, The Kerala minerals and metals limited	Courses on carbon trading, green protocol/global warming related issues and latest trends, financial implication of project implementation can be added in curriculum	The course 19UCH912 Environmental Impact Assessment has been included as Professional Elective in R 2019
2.	Mr.Ashwin Nirmal.J Simulation Engineers , Sim Info systems, Chennai	CHEMCAD Course can be added in the curriculum	The courses will be added under the industrial designed courses in R 2019
3.	Mr.P.S.Sathish Kumar, Scientist/ Engineer - SF VSSC,ISRO, Trivandrum	Courses on Mathematical models in chemical engineering, can be added in curriculum	The Course 19UCH702 Process Modeling and Simulation has been included in the R 2019 curriculum.
4.	Mr.Senthil Appaian (Industry Nominee) Regional Manager – Asian Country De Nora Water Technology Chennai	Topic related solar power plant can be include in curriculum.	It is resolved to include in the subject of Alternative Energy Technology

2.3 International Faculty feedback

S. No	Name & Designation	Feedback	Action taken
1.	Mr. Dhanraj, Lecturer, Department of Chemical Engineering King Khalid University Saudi Arabia	Extractive Metallurgy Course can be added	The Course 19UCH921 Extractive Metallurgy has been included in the R 2019 curriculum.

2.4 Alumni Feedback

S. No	Name & Designation	Feedback	Action taken
1.	Mr. Venkateswaran.S, (2015-2019 batch) Production engineer, Shalimar paints Chennai	A course on Chemical Safety can be added or upgraded	The Course 19UCH604 Chemical Process Plant Safety has been included in R2019 curriculum.

2.5 Faculty Feedback

S.No	Name & Designation	Feedback	Action taken
1.	Mr.M.Abdul Ajmal, Assistant professor, Department of chemical Engineering, Sethu Institute of Technology	A course on Nuclear Science and Technology can be added.	The Course 19UCH924 Nuclear Science and Technology has been included as Professional Elective in R2019 curriculum.
2	Mr.R.Prabhu Sankar, Assistant professor, Department of chemical Engineering, Sethu Institute of Technology	A course on Computational Fluid Dynamics can be added	The Course 19UCH907 Computational Fluid Dynamics has been included as Professional Elective in R2019 curriculum.
3	Dr. M. Arulmozhi (University Nominee) Professor & Head Department of Petrochemical Technology, University College of Engineering, BIT Campus, Tiruchirapalli – 620024	To transfer the Chemical Process plant Safety course from professional elective to professional core	The Course 19UCH604 Chemical Process Plant Safety has been included in sixth semester as professional core in R2019 curriculum
	Dr.A.Babu Ponnusamy (Academic Expert) Associate Professor Department of Chemical Engineering VIT Vellore	The thermodynamic cycles can be reduced and Refrigeration & compression topic can be included in the Heat Power Engineering	It is resolved to include at the time of framing syllabus.

3: Inter Disciplinary Courses

S. No	Suggestion given	Action taken
1	The following interdisciplinary courses were presented 1. Data Science for engineers 2. Waste to Energy Conversion	It is resolved to approve in the board

4: Employability, Entrepreneurship & Skill Development Courses.

S. No	Suggestion given	Action taken
1	The classification of courses for Employability, Entrepreneurship & Skill Development in annexure 1 were presented	It is resolved to approve the same with no modification

5: Value Added Courses.

S. No	Suggestion given	Action taken
1	The following interdisciplinary courses were presented 1. MATLAB for Chemical Engineers 2. Simulation on Process Fundamentals 3. ANSYS – CFD 4. CHEMCAD 5. ASPEN – HYSYS	It is resolved to approve the same with no modification

6: Examiners (Question paper setting, Paper Evaluation, Project Viva voce)

S. No	Suggestion given	Action taken
1	The Examiners for Question paper setting, Paper Evaluation, Project Viva voce were presented	It is resolved to approve the same with no modification

7: New Courses under Curriculum 2019

S. No	Suggestion given	Action taken
1	The following new courses in the annexure 2 were presented	It is resolved to approve the same with no modification

C. M. H.
Dr.C. Marimuthu