

ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

PERUNDURAI, ERODE - 638 057



Department of Chemical Engineering **6th BOARD OF STUDIES MEETING**

06th June 2023 @ 10.30 am

Zoom Online Meet

Link:

<https://us06web.zoom.us/j/81739957360?pwd=Z3NyZW04M2YxSHo2MWdlOHJ4MlNpUT09>



ERODE SENGUNTHAR ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University, Chennai)



PERUNDURAI, ERODE - 638 057

DEPARTMENT OF CHEMICAL ENGINEERING
MINUTES OF 6th BOARD OF STUDIES MEETING

Name of the Department : Chemical Engineering
Name of the Board : Chemical Engineering
Programmes : B.Tech – Chemical Engineering
B.Tech – Biotechnology
M.Tech – Chemical Engineering
Date, Time & Mode : 06.06.2023 – 10.30 AM & ONLINE
Zoom Link : <https://us06web.zoom.us/j/81739957360?pwd=Z3NyZW04M2YxSHo2MWdlOHJ4MINpUT09>
Meeting Number : 06

AGENDA OF MEETING

BoS /Chemical 6.1	:	Welcome address and introduction of BoS members by Chairman.
BoS /Chemical 6.2	:	Confirmation of the Minutes of 5 th Board of Studies Meeting and Action taken report of 5 th Board of Studies meeting.
BoS /Chemical 6.3	:	Ratification of Induction of mandatory courses prescribed by Anna University தமிழர் மரபு / Heritage of Tamils in II semester and தமிழரும் தொழில்நுட்பமும் / Tamils and Technology in III semester for the students admitted during the academic year 2022 under Regulations – 2019 admitted from 2020 onwards.
BoS /Chemical 6.4	:	Review of curriculum for the B.Tech Chemical Engineering and B.Tech Bio-Technology programmes offered under Regulations – 2023.

BoS /Chemical 6.5	:	Review of syllabus for the I and II semesters of B.Tech Chemical Engineering and B.Tech Bio-Technology Programmes offered under Regulations 2023.
BoS /Chemical 6.6	:	Review of curriculum for the M.Tech. Chemical Engineering programme offered under Regulations 2023.
BoS /Chemical 6.7		Review of syllabus for the I and II semesters of the M.Tech. Chemical Engineering programme offered under Regulations 2023.
BoS /Chemical 6.8		Review of vertical courses identified for the B.Tech Chemical Engineering and B.Tech Bio-Technology programmes offered under Regulation 2023.
BoS /Chemical 6.9		To confirm and approve verticals for awarding Honors, Honors with Specialization and Minor Degree – B.Tech Chemical Engineering in Regulations 2019 for students admitted in the academic year 2021-22 onwards as per the Direction of Anna University(letter no 5749/AU/CAC/Honors/2022 dated 16.11.2022).
BoS /Chemical 6.10		Any Other Items

The following members were present:

Sl. No	Name & Designation	Category
1.	Dr. P. Akilamudhan, Professor & Head, Department of Chemical Engineering, Erode Sengunthar Engineering College, Perundurai – 638 057.	Chairman
2.	Dr. N. Jaya, Associate Professor, UCE, Department of Petrochemical Engineering, Anna University BIT Campus, Trichy.	University Nominee
3.	Dr. R. Ravi, Professor, Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalai nagar, Chidambaram.	Academic Experts Nominated by Academic Council– subject experts from outside the parent University
4.	Dr. M. Matheswaran, Professor, Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli – 620015	
5.	Mr. K. Ramalingam, Operations Excellence Head, Mankind Pharma Ltd, New Delhi.	Representative from industry/ Corporate sector relating to placement
6.	M. Kannan, Proprietor, Anna Pumps, Coimbatore.	Alumnus nominated by the Principal
7.	Dr. R. Perumal, Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	Internal Members (Entire Faculty members of Each specialization)
8.	Dr. P. Dhanasekaran Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	
9.	Dr. T. Usharani, Associate Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	

10.	Dr. M. Aynul Rifaya, Associate Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	
11.	V. Santhosh, Assistant Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	
12.	P. Selvaprakash, Assistant Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	
13.	S. Gokila, Assistant Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	
14.	P. Ajay, Assistant Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	

BoS / Chemical 6.1	:	<p>Welcome address and opening remarks by Chairman, Board of Studies in the Department of Chemical Engineering.</p> <p>Dr. P Akilamudhan, Professor and Head / Chemical, Chairman of Chemical Board of Studies welcomed the members. He presented the introduction and achievements of the department and briefed the agenda to be discussed followed by introduction of members present.</p>
BoS / Chemical 6.2	:	<p>Confirmation of the Minutes of 5th Board of Studies Meeting and Action taken report of 5th Board of Studies meeting.</p> <p>The Chairman, BoS of the Chemical Engineering presented the Minutes of 5th Board of Studies Meeting, which was held on 12.07.2022 and action taken report of the same.</p> <p>It was confirmed and ratified by the members.</p>
BoS / Chemical 6.3	:	<p>Ratification of Induction of mandatory courses prescribed by Anna University தமிழர் மரபு / Heritage of Tamils in II semester and தமிழரும் தொழில்நுட்பமும் / Tamils and Technology in III semester for the students admitted during the academic year 2022 under Regulations – 2019, admitted from 2020 onwards.</p> <p>It was confirmed and ratified by the members.</p>
BoS / Chemical 6.4	:	<p>Review of syllabus for the I and II semesters of B.Tech Chemical Engineering and B.Tech Bio-Technology Programmes offered under Regulations 2023.</p>

The Chairman, Chemical Board of studies presented the curriculum for the B. Tech Chemical Engineering and B. Tech Bio-Technology programs offered under Regulations – 2023.

Dr. N. Jaya, ASP / Petrochemical Engineering, Anna University BIT Campus, Trichy suggested to add tutorial hour for Molecular Biology course in IV semester B. Tech Biotechnology.

Dr. M. Matheswaran, Professor, Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli suggested

1. To reduce the number of Professional Elective course and increase the number of open elective courses.
2. To increase the credit given to Internship programme with a minimum of 40 days training, to gain more knowledge on problem solving and project execution.
3. To shift the mandatory course Universal Human Values and Understanding Harmony from IV semester to VII Semester.
4. To introduce a new set of courses for awarding Honors Degree and Minor Degree, he pointed out that the vertical courses added in the curriculum is only for the purpose of choosing elective subjects. The students cannot choose the courses for 18 credits from these verticals for receiving Honors Degree /Minor degree.
5. To reduce credits for Humanities courses and give more credits for Professional core courses.
6. To reduce the syllabus of Introduction to Chemical Engineering.

Dr. R. Ravi, Professor, Department of Chemical Engineering, Annamalai University, Chidambaram suggested

1. To include Environmental Impact Assessment, course in the vertical.
2. To review the need for Transforms and Partial Differential Equation course in third semester, he also pointed out that syllabus of mathematics courses may be modified to satisfy the Chemical Engineering applications.
3. To give more weightage to Professional Core rather than weightage given to Humanities and Basic sciences.

		<p>4. To incorporate Pharma related course in the Core for Biotechnology.</p> <p>5. To incorporate Chemical Reaction Engineering and Mass Transfer courses for Biotechnology.</p> <p>6. To add Application oriented and problem solving courses in Biotechnology.</p> <p>Mr. K. Ramalingam, Operations Excellence Head, Mankind Pharma Ltd, New Delhi suggested:</p> <p>1.To incorporate management courses in the curriculum as it plays a vital role in grooming the graduates who enter into the industries as a fresher.</p> <p>2. To emphasize more on basics of unit operations and unit process before the students go for industry training /internship so that the students can easily understand the various kind of such operations/process carried out in the industry during their visit.</p> <p>3. To include soft skill and communication courses in the higher semesters rather lower semesters.</p> <p>4. To reduce the weightage given to Humanities and Basic Science courses. (if Possible)</p> <p>The chairman assured to accept the valid points given by the BoS members and to incorporate the same with considering other key factors.</p> <p>The Members of Board of studies accepted the Curriculum for B.Tech Chemical Engineering and Biotechnology.</p>
BoS / Chemical 6.5	:	Review of syllabus for the I and II semesters of B.Tech Chemical Engineering and B.Tech Bio-Technology Programmes offered under Regulations 2023.

	<p>The Chairman, Chemical Board of Studies presented the syllabus for the I and II semesters of B. Tech Chemical Engineering and B. Tech Bio-Technology Programmes offered under Regulations 2023.</p> <p>Dr. N. Jaya, ASP / Petrochemical Engineering, Anna University BIT Campus, Trichy insisted to keep the subject “Transforms and Partial Differential Equations as it is a pre-requisite course for “Process Dynamics and Control”.</p> <p>Dr. R. Ravi, Professor, Department of Chemical Engineering, Annamalai University, Chidambaram suggested that</p> <ol style="list-style-type: none"> 1. Chemistry theory course and Chemistry Laboratory Course may be combined and give as an embedded course. 2. To review the need for Introduction to Chemical Engineering course in second semester, he pointed out that the syllabus is too heavy for first year students it may be modified to reduce the content. <p>Mr. K. Ramalingam, Operations Excellence Head, Mankind Pharma Ltd, New Delhi suggested to review the syllabus for Chemical Analysis Lab with more number of analytical instruments.</p> <p>The chairman accepted all the suggestions and agreed to incorporate the same.</p>
BoS / Chemical 6.6	<p>Review of curriculum for the M.Tech. Chemical Engineering programme offered under Regulations 2023.</p> <p>The Chairman Board of Studies presented the curriculum for the M.Tech. Chemical Engineering programme offered under Regulations 2023.</p> <p>Dr. N. Jaya, ASP / Petrochemical Engineering, Anna University BIT Campus, Trichy and Dr. M. Matheswaran, Professor, Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli insisted to offer internship for M. Tech students during III semester.</p> <p>Dr. R. Ravi, Professor, Department of Chemical Engineering, Annamalai University, Chidambaram suggested</p> <ol style="list-style-type: none"> 1.To incorporate a course on “Industrial Safety” in the curriculum. 2.To incorporate Nano related laboratories and separation technology.

	<p>3. To emphasize more on In-House Projects rather than doing industry projects.</p> <p>Chairman, accepted all the suggestions and agreed to incorporate</p> <p>The members of the Board of studies approved the curriculum for M.Tech Chemical Engineering.</p>
BoS /Chemical 6.7	<p>Review of syllabus for the I and II semesters of the M.Tech. Chemical Engineering programme offered under Regulations 2023.</p> <p>Dr. M. Matheswaran, Professor, Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli suggested</p> <p>1.To add Chemical Engineering application oriented syllabus in the “Advanced Numerical Methods” course.</p> <p>2.To add Liquid and Gas phase analysis equipment in the Instrumental Methods of Analysis Laboratory.</p> <p>Chairman accepted all the suggestions and agreed to modify the same.</p> <p>The members of Board of Studies approved the first and second semester syllabus for M. Tech Chemical Engineering.</p>
BoS /Chemical 6.8	<p>Review of vertical courses identified for the B.Tech Chemical Engineering and B.Tech Bio-Technology programmes offered under Regulation 2023.</p> <p>The Chairman presented the vertical courses identified for the B. Tech Chemical Engineering and B. Tech Bio-Technology programmes offered under Regulation 2023</p> <p>The members of Board of Studies approved vertical courses identified for the B. Tech Chemical Engineering and B. Tech Bio-Technology programmes offered under Regulation 2023</p>
BoS /Chemical 6.9	<p>To confirm and approve verticals for awarding Honors, Honors with Specialization and Minor Degree – B.Tech Chemical Engineering in Regulations 2019 for students admitted in the academic year 2021-22 onwards as per the Direction of Anna University(letter no 5749/AU/CAC/Honors/2022 dated 16.11.2022).</p>

		RESOLVED to approve verticals for awarding Honors, Honors with Specialization and Minor Degree – B.Tech Chemical Engineering
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CHAIRMAN

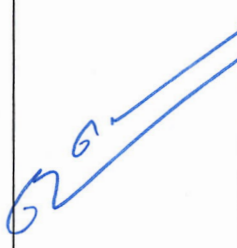





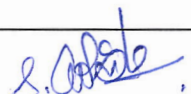
BOARD OF STUDIES


Chairman - BoS
Dept. of Chemical Engg. - ESEC

ANNEXURE – I

The following members presented in the Board of Studies Meeting

Sl. No	Name & Designation	Category	Members Present Online / off line
1.	Dr. P. Akilamudhan, Professor & Head, Department of Chemical Engineering, Erode Sengunthar Engineering College, Perundurai – 638 057.	Chairman	
2.	Dr. N. Jaya, Associate Professor, UCE, Department of Petrochemical Engineering, Anna University BIT Campus, Trichy.	University Nominee	Online
3.	Dr. R. Ravi, Professor, Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalai nagar, Chidambaram.	Academic Experts Nominated by Academic Council– subject experts from outside the parent University	Online
4.	Dr. M. Matheswaran, Professor, Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli – 620015		Online
5.	Mr. K. Ramalingam, Operations Excellence Head, Mankind Pharma Ltd,	Representative from industry/ Corporate sector relating to placement	Online

6.	M. Kannan, Proprietor, Anna Pumps,	Alumnus nominated by the Principal	Absent
7.	Dr. R. Perumal, Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.	Internal Members (Entire Faculty members of Each specialization)	
8.	Dr. P. Dhanasekaran Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.		
9.	Dr. T. Usharani, Associate Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.		
10.	Dr. M. Aynul Rifaya, Associate Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.		
11.	V. Santhosh, Assistant Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.		
12.	P. Selvaprakash, Assistant Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.		
13.	S. Gokila,		

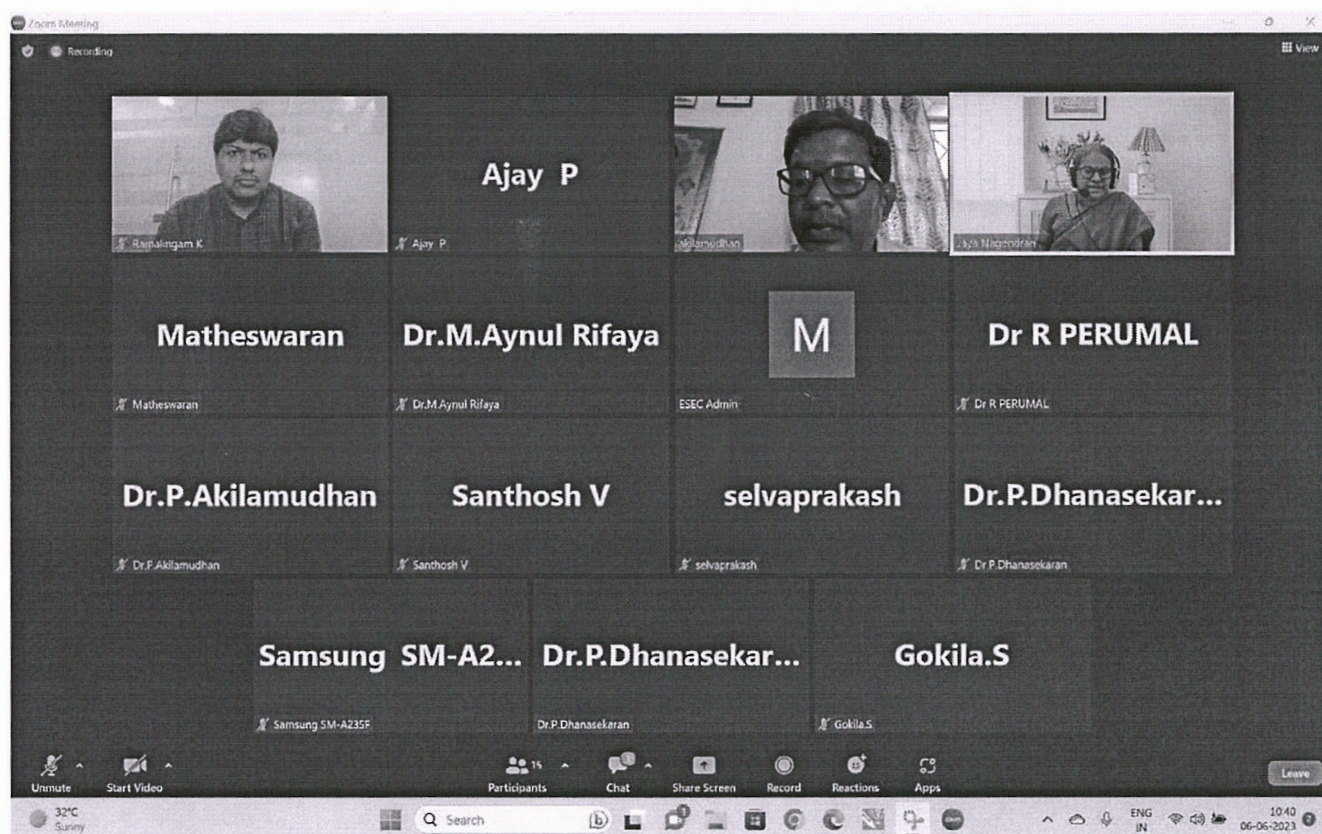
	Assistant Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.		
14.	P. Ajay, Assistant Professor / Chemical Engineering, Erode Sengunthar Engineering College, Thudupathi.		

ANNEXURE – II

DEPARTMENT OF CHEMICAL ENGINEERING

Screen Shots of 06th Board of Studies Meeting

Name of the Department : Chemical Engineering
Name of the Board : Chemical Engineering
Date, Time & Mode : 06.06.2023 – 10.30 AM & ONLINE
Zoom Link : <https://us06web.zoom.us/j/81739957360?pwd=Z3NyZW04M2YxSHo2MWdlOHJ4MINpUT09>



AGENDA

BoS / Chemical 6.1	:	Welcome address and introduction of BoS members by Chairman
BoS / Chemical 6.2	:	Confirmation of the Minutes of 5 th Board of Studies Meeting : report of 5 th Board of Studies meeting.
BoS / Chemical 6.3	:	Ratification of Induction of mandatory courses prescribed by தமிழர் மரபு / Heritage of Tamils in II semester and தொழில்நுட்பமும் / Tamils and Technology in III semester admitted during the academic year 2022 under Regulations – 2020 onwards.
BoS / Chemical 6.4	:	Review of curriculum for the B.Tech Chemical Engineering Technology programmes offered under Regulations – 2023.



AGENDA

BoS / Chemical 6.5	:	Review of syllabus for the I and II semesters of B.Tech Bio-Technology Programmes offered
BoS / Chemical 6.6	:	Review of curriculum for the M.Tech. Chemical Engineering under Regulations 2023.
BoS / Chemical 6.7	:	Review of syllabus for the I and II semesters of B.Tech Bio-Technology Engineering programme offered under Regulations
BoS / Chemical 6.8	:	Review of vertical courses identified for the B.Tech Bio-Technology programmes offered under Regulations
BoS / Chemical 6.9	:	Any Other Items



(Signature)
Chairman - BoS
 Dept. of Chemical Engg. - ESEC



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(An Autonomous Institution - Affiliated to Anna University, Chennai)



DEPARTMENT OF CHEMICAL ENGINEERING

6th Board of Studies Meeting

Mode: Through Online (Meeting Link: <https://us06web.zoom.us/j/81739957360?pwd=Z3NyZW04M2YxSHo2MWdlOHJ4MINpUT09>)


Venue: Department of Chemical Engineering,

Date & Time: 06.06.2023 & 10.30 am

Action Taken Report

S.No	Name of the Expert	Suggestion Given	Action Taken	Remarks
1	Dr. N. Jaya ASP / Petrochemical Engineering, Anna University BIT Campus, Trichy	Suggested 1.To add tutorial hour for Molecular Biology course in IV semester B.Tech Biotechnology	Added in the curriculum	
		2. Insisted to provide internship for M.Tech students	To be Considered	
2	Dr. M. Matheswaran, Professor, Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli	Suggested 1. To reduce the number of Professional Elective course and increase the number of open elective courses.	Professional elective courses are limited to only 6.	
		2 To introduce a new set of courses for awarding Honors Degree and Minor Degree, he pointed out that the vertical courses added in the curriculum is only for the purpose of choosing elective subjects. The students cannot choose the courses for 18 credits from these verticals for receiving Honors Degree /Minor degree	Will be taken to consideration	
		3. To review the need for Transforms and Partial Differential Equation course in third semester, he also pointed out that syllabus of mathematics courses may be modified to satisfy the Chemical Engineering applications.	Application topics are added in the syllabus	
		4. To add Liquid and Gas phase analysis equipment in the Instrumental Methods of Analysis Laboratory.	Will be taken to consideration	

3	Dr. R. Ravi , Professor, Department of Chemical Engineering, Annamalai University, Chidambaram	1. To review the need for “Transforms and Partial Differential Equation” course in third semester, he also pointed out that syllabus of mathematics courses may be modified to satisfy the Chemical Engineering applications.	Application topics are added in the syllabus	
		2.To incorporate Pharma related course in the Core for Biotechnology	Will be taken to consideration	
		3.To incorporate Chemical Reaction Engineering and Mass Transfer courses for Biotechnology	Topics are covered in the syllabus	
		4.Chemistry theory course and Chemistry Laboratory Course may be combined and give as an embedded course	Will be taken to consideration	
		5.To add Nano related laboratories and separation technology	Will be taken to consideration	
4	Mr.K. Ramalingam , Operations Excellence Head, Mankind Pharma Ltd, New Delhi	Suggested: 1.To incorporate management courses in the curriculum as it play a vital role in grooming the graduates who enter into the industries as a fresher	Incorporated in the VII semester curriculum	
		2. To emphasize more on basics of unit operations and unit process before the students go for industry training /internship so that the students can easily understand the various kind of such operations/process carried out in the industry during their visit.	Syllabus is already available. More emphasize will be given to fulfill the industrial requirement.	
		3.To add Environmental Engineering Lab and also pointed out to review the syllabus for Chemical Analysis Lab with more number of analytical instruments	Will be taken to consideration	


Chairman
BoS-Chemical
Chairman - BoS
Dept. of Chemical Engg. - ESEC