

NANDHA ENGINEERING COLLEGE, ERODE – 638 052
(An Autonomous Institution, Affiliated to Anna University Chennai and
Approved by AICTE New Delhi)

MINUTES OF THE 8th BOARD OF STUDIES MEETING

Name of the Body	Board of Studies
Name of the Board	B.Tech - Chemical Engineering
Meeting No.	08
Date & Time	12.06.2024, 11.00 A.M
Venue	NEC – Board Room

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Minutes of 8th Board of Studies Meeting (BoS) held on 12.06.2024

The 8th Board of Studies (BoS) meeting was held on **12.06.2024 at 11.00 A.M** through offline mode as per the requisition from University Nominee and Expert Members. The members attended the meeting are given in the **Annexure I**.

The Chairman of BoS, **Dr.A.Murugesan**, Professor (Chemical Engineering) delivered the welcome address and invited the Members for the meeting. Then the items listed below were taken for discussion.

The proceedings of BoS started and Minutes of the Meeting recorded as follows:

Item – 8.01	Review of the 7th BoS meeting minutes and Action Taken Report.
Discussion	The salient decisions taken in the 7th BoS meeting and action taken were presented. The members have appreciated the efforts taken to implement the suggestions.
Resolution	Resolved to approve the ATR of 7 th BoS meeting minutes.
Item – 8.02	Review of the previous PAC & DAB meeting minutes.
Discussion	The important suggestions given by the PAC and DAB members during the previous PAC and DAB meeting and action taken were presented.
Resolution	Resolved to approve the PAC and DAB meeting minutes.
Item – 8.03	Result Analysis and Attainment of the Odd Semester 2023-2024
Discussion	More problems to be given for problems oriented courses to the slow learners. Fix the target as > 85 % for the courses like Laboratory and Project work in attainment level.
Resolution	Resolved to record the suggestion given by BoS members
Item-8.04	CAT Examination result analysis and Attainment of Even semester 2023-2024, Identification of slow learners and corrective actions.
Discussion	More number of failures were identified in Engineering graphics, Calculus and Linear Algebra and this result showed that the students' creativity skill is less. In Process Instrumentation Dynamics and Control course, CAT – I result is poor and therefore the following Teaching – Learning process to be formed <ul style="list-style-type: none"> ➤ Remedial Classes for Slow learners. ➤ Peer group learning. ➤ Fast learners may give coaching to slow learners. ➤ Special Schedule for remedial classes to slow learners with Geo-tag Photos

	<p>as proof is required.</p> <p>➤ Appreciation for slow learners is needed by providing certification to them.</p>
Resolution	Resolved to record the suggestion given by BoS members
Item-8.05	Class Committee Meeting (CCM) reports and action taken
Discussion	Aspen HYSYS software may be included as a practical course in department laboratories and students may be motivated by giving more training using design oriented modern tools.
Resolution	Resolved to record the suggestion given by BoS members
Item-8.06	Placement status of IV year (2020 - 2024 Batch) students and Training Plan for 2021-2025 batch students.
Discussion	<ul style="list-style-type: none"> ❖ As per the placement record, number of core industries visited to campus and salary package details were highlighted for 2024 batch students. ❖ AutoCAD Training details and Action plan of Aptitude, Verbal & Logical Reasoning Training and Core Training by external vendors for 2021 -2025 batch students.
Resolution	Resolved to record the suggestion given by BoS members
Item-8.07	R22 Regulation, Curriculum, Syllabus modification and amendments.
Discussion	<p>The following courses syllabi are presented in the meeting for discussion and approval.</p> <p>V Semester</p> <ol style="list-style-type: none"> 1. Mass Transfer I I <ul style="list-style-type: none"> • Dr.M.Arulmozhi has suggested to change Adsorption & Membrane Separation Processes instead of adsorption in Unit – V Title. • Dr.C.Karthikeyan has suggested to include Multi Component Distillation. • Dr.M.Arivazhagan has suggested to combine Liquid – Liquid Extraction & Solid-Liquid Extraction/Leaching as a single unit. 2. Process Engineering Economics <ul style="list-style-type: none"> • Dr.C.Karthikeyan has suggested to include Breakeven analysis in unit I 3. Process Dynamics and Control <ul style="list-style-type: none"> • Dr.M.Arulmozhi has suggested to include control valve characterization in unit V 4. Chemical Reaction Engineering Laboratory – No change 5. Mass Transfer Laboratory– No change <p>VI Semester</p> <ol style="list-style-type: none"> 1. Transport Phenomena <ul style="list-style-type: none"> • Dr.M.Arivazhagan has suggested to change unit II title from Energy

	<p style="text-align: center;">Transport to Heat Transport</p> <ol style="list-style-type: none"> 2. Process Modeling and Simulation– No change 3. Process Control Laboratory– No change 4. Process Modeling and Simulation Laboratory– No change <p>VII Semester</p> <ol style="list-style-type: none"> 1. Process Computation laboratory– No change 2. Chemical Equipment Design laboratory– No change 3. Industrial Training / Internships– No change <p>VIII Semester</p> <ol style="list-style-type: none"> 1. Project Work– No change <p>Vertical 1: Chemical Industry 4.0</p> <p>Members suggested change Vertical title from Industry 4.0 to Chemical Industry 4.0</p> <ol style="list-style-type: none"> 1. Introduction to Computational Fluid Dynamics – No change 2. Modern Separation Techniques – No change 3. Chemical Process Utilities – No change 4. Corrosion Technology – No change 5. Materials of Construction for Process Industries <ul style="list-style-type: none"> • Members Suggested to change the title from “Materials of Construction for Chemical Industries” to “Materials of Construction for Process Industries” 6. Process Instrumentation – No change 7. Pharmaceutical Technology – No change 8. Separation and Purification Processes – No change <p>Vertical II: Petroleum Technology</p> <ol style="list-style-type: none"> 1. Petroleum Chemistry and Refining Fundamentals – No change 2. Primary Refining Technology – No change 3. Petroleum Refining Primary Processing Technology – No change 4. Secondary Refining Technology – No change 5. Petrochemical Unit Processes – No change 6. Petrochemical Derivatives – No change 7. Petrochemical Technology – No change 8. Polymer Technology – No change 9. Fertilizer Technology – No change <p>Vertical III : Food Technology</p> <ol style="list-style-type: none"> 1. Food Chemistry – No change
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2. Food Materials Science – No change
3. Processing of Dairy Products – No change
4. Fruit and Vegetable Processing and Preservation – No change
5. Baking and Confectionery Technology – No change
6. Technology of Fruit and Vegetable Processing – No change
7. Food Structuring Techniques – No change
8. Food Quality and Safety – No change

Vertical IV : Environmental and Safety Engineering

1. Air Pollution Engineering – No change
2. Waste Water Treatment
 - Members suggested to change title from “Waste Water Management” to “Waste Water Treatment”
 - Dr.C.Karthikeyan has suggested to change unit IV title from “Treatment Methods” to “Aerobic And Anaerobic Treatment Methods”
3. Solid waste Management
 - Mr,S.Nikhileswar has suggested to remove the topic bioreactor from unit V
4. Environmental Impact Assessment – No change
5. Process Safety Management – No change
6. Risk and HAZOP Analysis – No change
7. Industrial Pollution Control and Management – No change
8. Environmental Biotechnology – No change

Minor Degree Courses

Chemical Engineering

1. Fundamentals of Chemical Engineering
 - Dr.M.Arulmozhi has suggested to add topics on unit operations in unit I
2. Fluid Mechanics – No change
3. Basic Process Calculations – No change
4. Heat Transfer Operations – No change
5. Mass Transfer Operations – No change
6. Chemical Reaction Engineering – No change
7. Process Plant Utilities – No change
8. Process Plant Safety
 - Mr,S.Nikhileswar has suggested to add fire extinguisher in unit II.

General Observations

Internship / Industrial Training;

- ❖ Minimum one month duration is required for Industrial Training/

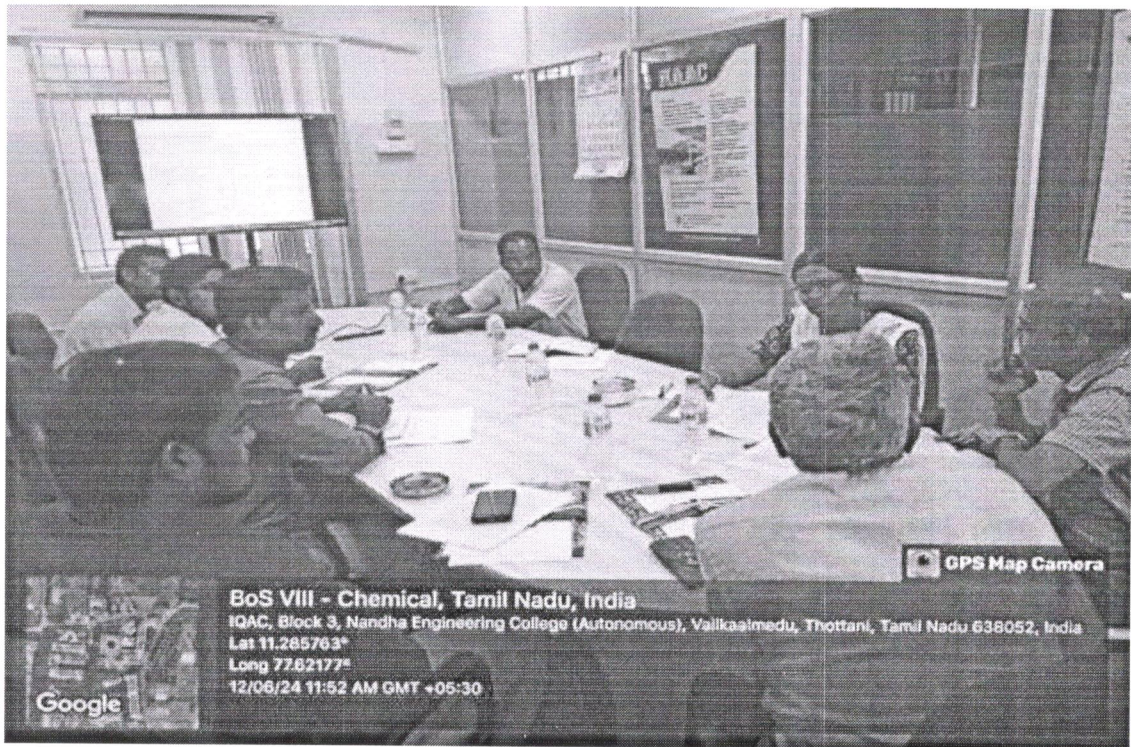
	<p>Internship for students.</p> <p>Project Work ;</p> <ul style="list-style-type: none"> • Students have to carry out their projects related to products manufacturing / Synthesis. • Students have to acquire a skill set as in the form of Reskilling / Upskilling to fabricate the chemical equipments (pilot version), which may be used in Chemical Process Industries. • Mapping should be properly done for all COs/POs with graduate attributes. <p>Verticals;</p> <ul style="list-style-type: none"> • In all Verticals Course Order should be changed as per Hierarchy. • Vertical - V - Change Vertical entitled as Chemical Industry 4.0 instead of Industry 4.0. • Mapping to be checked in all Courses in above verticals.
Resolution	Resolved to record the suggestion given by BoS members
Item-8.08	<p>Suggestions from the following;</p> <ul style="list-style-type: none"> ➤ Curriculum Review and Updates ➤ Program Accreditation and Compliance ➤ Teaching and Learning Innovations ➤ Assessment and Evaluation ➤ Faculty Development and Research ➤ Industry Collaboration and Internships ➤ Infrastructure and Resource Enhancement ➤ Student Support and Extracurricular Activities ➤ Policy Formulation and Administrative Decisions ➤ Future Planning with NEP - 2020 features
Discussion	Above points were shown to the BoS members for their additional valuable suggestions. External members were asked to send the same through email with sub parameters to suggest further.
Item - 8.09	Any other matter
Discussion	Alumni Mentoring in addition to faculty members to currently pursuing students.
Resolution	Plan to identify alumni from Process and Design Sector to implement.
	Mr.T.Sathish, Assistant Professor , Chemical Engineering, proposed vote of thanks.

Date: 12.06.2024

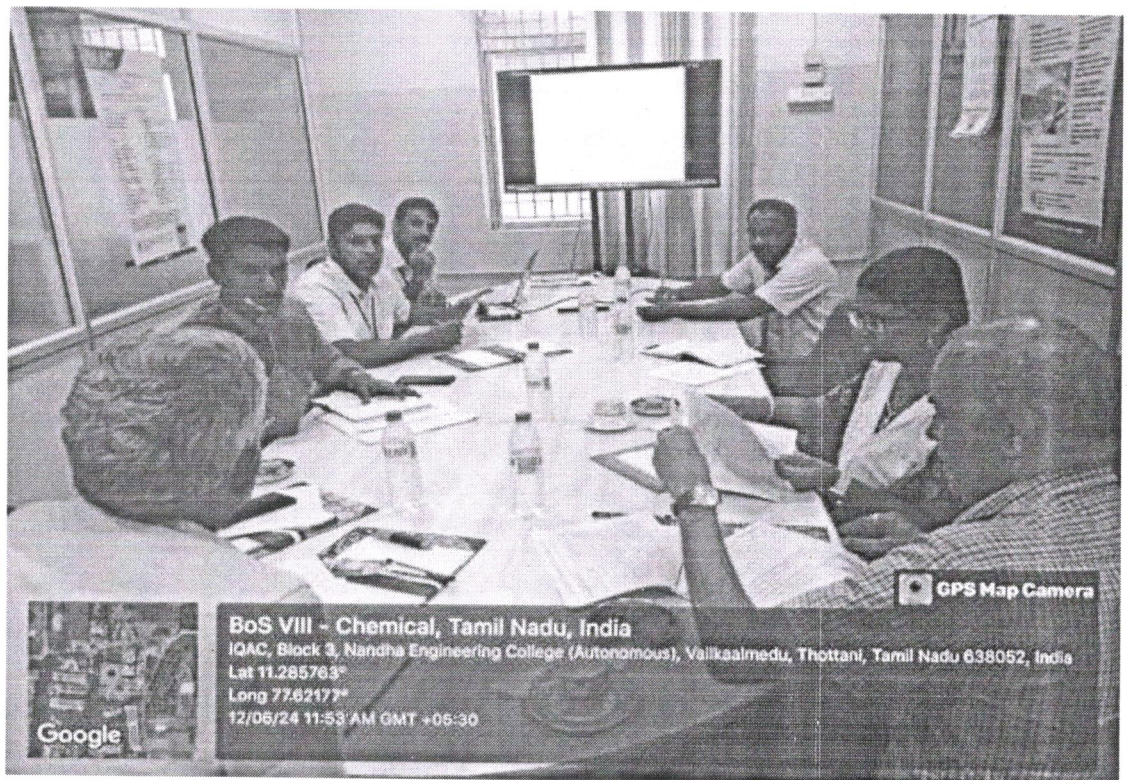


Dr.A.Murugesan
Dr.A.Murugesan
 (Chairman/BoS - Chemical Engineering)

Murugesan
 12/6/24



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Chemical BoS VIII Held on 12.06.2024

