

**Department of Chemical Engineering**



**25<sup>th</sup> Board of Studies Meeting**

**Date: 24.09.2021**

**Adhiyamaan College of Engineering**

**(An Autonomous Institute Affiliated to Anna University, Chennai)**

**Approved by AICTE, New Delhi**

**Accredited by NAAC- UGC, New Delhi**

**Hosur - 635130**

**Adhiyamaan College of Engineering, Hosur- 635 130**  
**(An Autonomous Institution, under Anna University, Chennai)**  
**Minutes of the Board of Studies – Chemical Engineering**  
**25<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering**  
**held on 24.09.2021 at 10:00 am (online)**

**MEMBERS PRESENT**

1. Dr. N. S. Badarinarayanan, Chairman, BOS/ Faculty of Chemical Engineering
2. Mr. P. Ezhilkumar, Member, BOS / Faculty of Chemical Engineering
3. Mr. Ajay kumarKonga, Member, BOS / Faculty of Chemical Engineering
4. Dr. S. Sujatha. HoD EIE, ACE / Interdisciplinary Expert
5. Dr.K.Sivakumar, HoD Chemistry,
6. Dr. V. Manivasagan, HoD Biotechnology, ACE / Interdisciplinary Expert
7. Dr. M. Sakthivel, Associate Professor of Mechanical Engineering, ACE / Interdisciplinary Expert
8. Dr. K. Kannan, University Nominee
9. Dr. C. T.Puttaswamy, Academic Council Nominee
10. Dr. N. Samsudeen, Academic Council Nominee
11. Mr. M. Chandrasekhar, Industrial Representative

- 25.1 To consider the minutes of the 24<sup>th</sup> meeting of the Board of Studies in Chemical Engineering held on 03.04.2021.

**Resolved** that the minutes of 24<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 03.04.2021 has been confirmed.

- 25.2 To consider the Syllabi of 8<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2018 – 19 under Regulation 2015 (CBCS) (*Annexure -I*).

**Resolved** that the Syllabi of 8<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2018 - 19 under Regulation 2015 (CBCS) be approved.

- 25.3 To consider the Syllabi of 6<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2019-20 under Regulation 2018 (CBCS) (*Annexure -II*).

**Resolved** that the Syllabi of 6<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS) be approved.

- 25.4 To consider the Syllabi of 4<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS) (*Annexure -III*).

**Resolved** that the Syllabi of 4<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS) be approved.

**25.5** To consider the curriculum of 2<sup>nd</sup> semester B. Tech. (Chemical Engineering) to be offered for the batch of students to be admitted in 2020 – 21 under Regulation 2018 (CBCS) (*Annexure -IV*).

**Resolved** that the curriculum of 2<sup>nd</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS) be approved.

**25.6** To consider the panel of Examiners for the purpose of Evaluation (*Annexure -V*).

**Resolved** the Panel of Examiners for Evaluation be approved.

**Date:** 24.09.2021



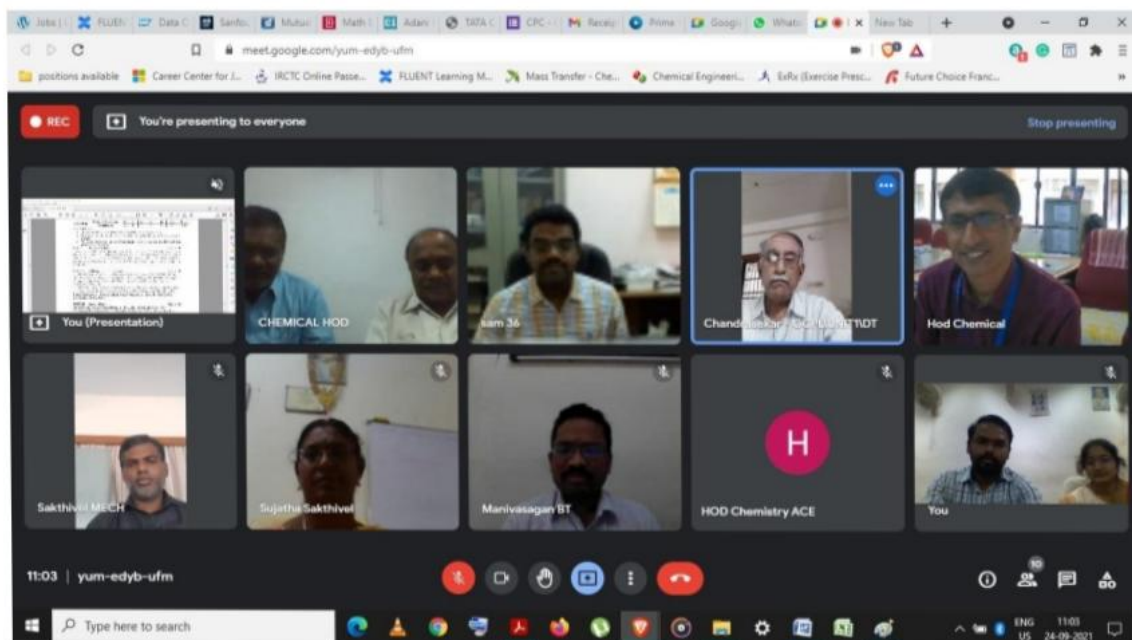
**Signature of the Chairman**

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 109**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**25th Board of Studies meeting of Department of Chemical Engineering held on 03.04.2021**



**DEPARTMENT OF CHEMICAL ENGINEERING**

**ADHIYAMAAN COLLEGE OF ENGINEERING,**

**MODIFICATIONS IN 25th BOARD OF STUDIES MEETING (24.09.2021)**

Semester	Course Code	Name of the course	Remarks (New course Introduced/contents incorporated in the corresponding course)
II	218GET03	Environmental Science and Engineering	New course Introduced
II	218PPT05	Problem Solving and Python Programming	New course Introduced
II	218PPP08	Problem Solving and Python Programming Laboratory	New course Introduced
II	218ESE08	Chemistry for Technologists	New course Introduced
IV	418MC01	Indian Constitution	New course Introduced
VI	618CHT02	Chemical Reaction Engineering- I	New course Introduced
VI	618BTO04	Health and Pharmaceutical Biotechnology	New course Introduced

**DEPARTMENT OF CHEMICAL ENGINEERING**  
**ADHIYAMAAN COLLEGE OF ENGINEERING,**  
**MODIFICATIONS IN 25th BOARD OF STUDIES MEETING (24.09.2021)**

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
818CHE01	Fermentation Engineering	➤ Anaerobic treatment process is added in UNIT - IV
818CHE08	Bioreactor Design	➤ "Simple problems on Design of Bioreactor" is removed in UNIT - V
818CHE05	Air Pollution Control and Design of Equipment	➤ "Design and operation of settling chamber" is added in UNIT - III
618CHE01	Energy Conservation and Management in Process Industries	➤ "Energy efficiency strategies" is added in UNIT - II

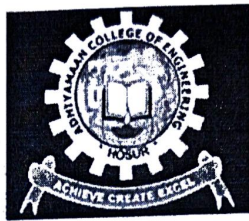
Feedback obtained about curriculum and syllabus from Stakeholders(Faculty, Students, Alumni, Employers) were also discussed and concluded



**BoS CHAIRMAN**

Chairman, Board of Studies  
Faculty of Chemical Engineering (UG& PG)  
Adhiyamaan College of Engineering (Autonomous)  
HOSUR-635 109.  
Krishnagiri -Dt, Tamil Nadu.

Department of Chemical Engineering



24<sup>th</sup> Board of Studies Meeting

Date: 03.04.2021

Adhiyamaan College of Engineering

(An Autonomous Institute Affiliated to Anna University, Chennai)

Approved by AICTE, New Delhi

Accredited by NAAC- UGC, New Delhi

Hosur - 635130

**Adhiyamaan College of Engineering, Hosur- 635 130**  
**(An Autonomous Institution, under Anna University, Chennai)**  
**Minutes of the Board of Studies – Chemical Engineering**  
**24<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering**  
**held on 03.04.2021 at 12:00 Noon**

**MEMBERS PRESENT**

1. Dr. N. S. Badarinarayanan, Chairman, BOS/ Faculty of Chemical Engineering
  2. Dr. V. Venkatesham, Member, BOS / Faculty of Chemical Engineering
  3. Dr. Mitali Das, Member, BOS / Faculty of Chemical Engineering
  4. Mr. Ajay kumarKonga, Member, BOS / Faculty of Chemical Engineering
  5. Dr.K.Sivakumar, HOD Chemistry, ACE / Interdisciplinary Expert
  6. Dr. V. Manivasagan, Professor of Biotechnology, ACE / Interdisciplinary Expert
  7. Dr. K. Kannan, University Nominee
  8. Dr. C. T.Puttaswamy, Academic Council Nominee
  9. Dr. N. Samsudeen, Academic Council Nominee
  10. Dr. K. Nagarajan, Alumni Representative
  11. Mr. M. Chandrasekhar, Industrial Representative
- 24.1 To consider the minutes of the twenty third meeting of the Board of Studies in Chemical Engineering held on 09.10.2020.
- Resolved** that the minutes of twenty third Board of Studies meeting for B.Tech., Chemical Engineering held on 09.10.2020 has been confirmed.
- 24.2 To consider the Syllabi of 7<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS) for approval. *(Annexure -I)*
- Resolved** that the Syllabi of 7<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS) be approved.
- 24.3 To consider the Syllabi of 5<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS). *(Annexure -II)*
- Resolved** that the Syllabi of 5<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS) be approved.



- 24.4 To consider the Syllabi of 3<sup>rd</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS). (*Annexure -III*)

**Resolved** that the Syllabi of 3<sup>rd</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS) be approved.

- 24.5 To consider the curriculum of 1<sup>st</sup> semester B. Tech. (Chemical Engineering) to be offered for the batch of students to be admitted in 2021 – 22 under Regulation 2018 (CBCS). (*Annexure -IV*)

**Resolved** that the curriculum of 1<sup>st</sup> semester B. Tech. (Chemical Engineering) to be offered for the batch of students to be admitted in 2021 – 22 under Regulation 2018 (CBCS) be approved.

- 24.6 To consider the panel of Examiners for the purpose of Evaluation. (*Annexure -V*)

**Resolved** the Panel of Examiners for Evaluation be approved.

- 24.7 Any other matter with the permission of the chair.

**Date:** 03.04.2021



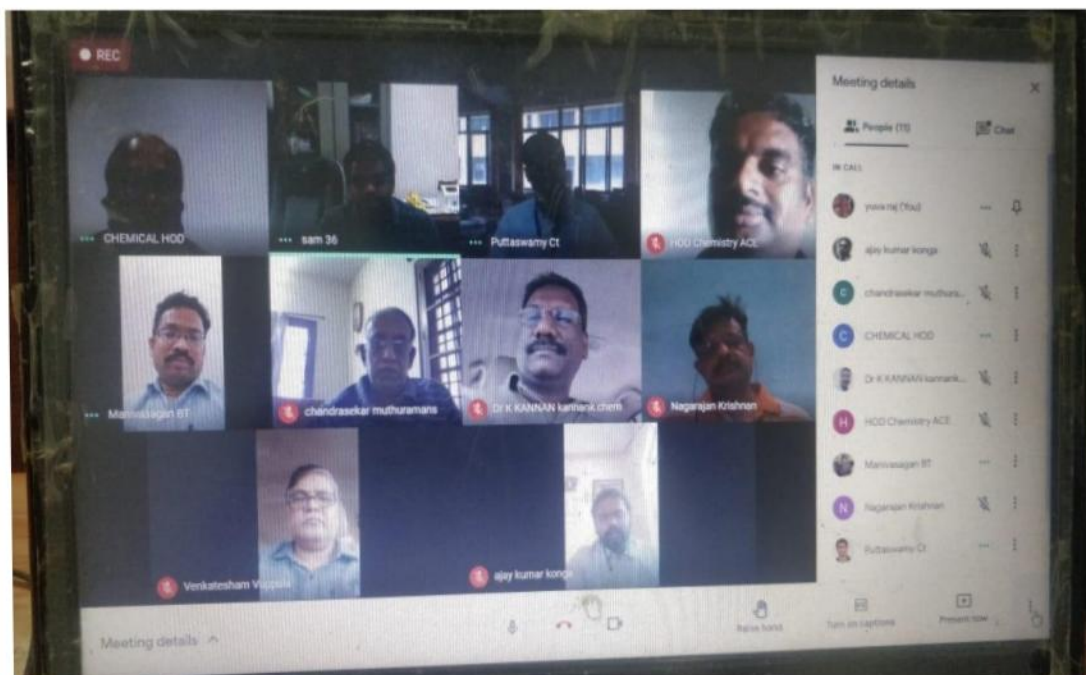
**Signature of the Chairman**

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 109**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**23<sup>rd</sup> & 24<sup>th</sup> Board of Studies meeting of Department of Chemical Engineering held on  
03.04.2021**



**DEPARTMENT OF CHEMICAL ENGINEERING**

**ADHIYAMAAN COLLEGE OF ENGINEERING,**

**MODIFICATIONS IN 24th BOARD OF STUDIES MEETING (03.04.2021)**

<b>Semester</b>	<b>Course Code</b>	<b>Name of the course</b>	<b>Remarks (New course Introduced/contents incorporated in the corresponding course)</b>
VI	618CHT02	Chemical Reaction Engineering-I	New course Introduced
VI	618BTO04	Health & Pharmaceutical Biotechnology	New course Introduced
V	518PST01	Probability and Statistics	New course Introduced
V	518BTO06	Environmental Biotechnology	New course Introduced
V	518MEO01	Finite Element Analysis	New course Introduced
V	518CHE08	Introduction to colloidal science and Interfacial Engineering	New course Introduced
VII	718CHT01	Chemical Reaction Engineering- II	New course Introduced
VII	718CHP09	Chemical Engineering simulation Laboratory	New course Introduced

DEPARTMENT OF CHEMICAL ENGINEERING


ADHIYAMAAN COLLEGE OF ENGINEERING,

MODIFICATIONS IN 24th BOARD OF STUDIES MEETING (03.04.2021)

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
718CHT01	Chemical Reaction Engineering-II	<ul style="list-style-type: none"> <li>➤ New Course Introduced</li> <li>➤ Unit-3: Fluid-Fluid reaction and Type of reactions like fast-intermediate and low reaction is added</li> </ul>
718CHT03	Transport Phenomena	<ul style="list-style-type: none"> <li>➤ B.M.Suryavanshi and L.R.Dongre, "Transport Phenomena", NiraliPrakashan, First Edition is included in reference section</li> </ul>
718CHP07	Chemical Reaction Engineering Lab	<ul style="list-style-type: none"> <li>➤ Include experiment on "Semibatch reactor"</li> </ul>
718CHP08	Chemical Process Equipment Design and Drawing -II	<ul style="list-style-type: none"> <li>➤ Included "Design of Packed absorption column"</li> <li>➤ "Design of Plate distillation column"</li> </ul>
718CHP09	Chemical Engineering Simulation Laboratory	<ul style="list-style-type: none"> <li>➤ DWSIM to be kept as it is an open source software</li> </ul>
718CHE09	Catalyst Science and Technology	<ul style="list-style-type: none"> <li>➤ B. Viswanathan, S. Sivasanker, A.V. Ramaswamy, "Catalysis: Principles &amp; Applications" CRC Press is included under text book section</li> </ul>
718CHP09	Chemical Engineering Simulation Laboratory	<ul style="list-style-type: none"> <li>➤ New Course Introduced</li> </ul>

Feedback obtained about curriculum and syllabus from Stakeholders(Faculty, Students, Alumni, Employers) were also discussed and concluded



  
**BoS CHAIRMAN**  
 Chairman, Board of Studies  
 Faculty of Chemical Engineering (UG & PG)  
 Adhiyamaan College of Engineering (Autonomous)  
 HOSUR-635 109.  
 Krishnagiri -Dt, Tamil Nadu.

**Department of Chemical Engineering**



**23<sup>rd</sup> Board of Studies Meeting**

**Date: 09.10.2020**

**Adhiyamaan College of Engineering**

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**Approved by AICTE, New Delhi**

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**Hosur – 635130**

Adhiyamaan College of Engineering, Hosur- 635 130  
(An Autonomous Institution, under Anna University, Chennai)

Minutes of the Board of Studies – Chemical Engineering  
23<sup>rd</sup> Board of Studies Meeting in the Department of Chemical Engineering  
held on 09.10.2020 at 11:00 am

MEMBERS PRESENT

1. Dr. N. S. Badarinarayanan, Chairman, BOS/ Faculty of Chemical Engineering
  2. Dr. V. Venkatesham, Member, BOS / Faculty of Chemical Engineering
  3. Dr. Mitali Das, Member, BOS / Faculty of Chemical Engineering
  4. Mr. P. Ezhilkumar, Member, BOS / Faculty of Chemical Engineering
  5. Mr. Ajay kumar Konga, Member, BOS / Faculty of Chemical Engineering
  6. Dr.K.Sivakumar, HOD Chemistry, ACE / Interdisciplinary Expert
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  8. Dr. K. Kannan, University Nominee
  9. Dr. C. T. Puttaswamy, Academic Council Nominee
  10. Dr. N. Samsudeen, Academic Council Nominee
  11. Dr. K. Nagarajan, Alumni Representative
  12. Mr. M. Chandrasekhar, Industrial Representative
- 23.1 To consider the minutes of the twenty second meeting of the Board of Studies in Chemical Engineering held on 07.11.2019.  
**Resolved** that the minutes of twenty second Board of Studies meeting for B.Tech., Chemical Engineering held on 07.11.2019 has been confirmed
- 23.2 To consider the minutes of the Board of Studies in Chemical Engineering held on 19.06.2020.  
**Resolved** that the minutes of the Board of Studies meeting for B.Tech., Chemical Engineering held on 19.06.2020 has been confirmed.
- 23.3 To consider the Syllabi of 7<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2017 – 18 under Regulation 2015 (CBCS).  
**Resolved** that the Syllabi of 7<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2017 – 18 under Regulation 2015 (CBCS) be approved  
(Annexure -I).

- 23.4 To consider the Syllabi of 5<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS).  
**Resolved** that the Syllabi of 5<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS) be approved (*Annexure -II*).
- 23.5 To consider the Syllabi of 3<sup>rd</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS).  
**Resolved** that the Syllabi of 3<sup>rd</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS) be approved (*Annexure -III*).
- 23.6 To consider the Syllabi of 8<sup>th</sup> semester B. Tech. (Chemical Engineering) to be offered for the batch of students admitted in 2017 – 18 under Regulation 2015 (CBCS).  
**Resolved** that the Syllabi of 8<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2017 – 18 under Regulation 2015 (CBCS) be approved (*Annexure -IV*).
- 23.7 To consider the Syllabi of 6<sup>th</sup> semester B. Tech. (Chemical Engineering) to be offered for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS).  
**Resolved** that the Syllabi of 6<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS) be approved (*Annexure -V*).
- 23.8 To consider the Syllabi of 4<sup>th</sup> semester B. Tech. (Chemical Engineering) to be offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS).  
**Resolved** that the Syllabi of 4<sup>th</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS) be approved (*Annexure -VI*).
- 23.9 To consider the curriculum of 2<sup>nd</sup> semester B. Tech. (Chemical Engineering) to be offered for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS).  
**Resolved** that the curriculum of 2<sup>nd</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS) be approved (*Annexure -VII*).
- 23.10 To consider the curriculum of 1<sup>st</sup> semester B. Tech. (Chemical Engineering) to be offered for the batch of students to be admitted in 2020 – 21 under Regulation 2018 (CBCS).  
**Resolved** that the curriculum of 1<sup>st</sup> semester B. Tech. (Chemical Engineering) offered for the batch of students to be admitted in 2020 – 21 under Regulation 2018 (CBCS) be approved (*Annexure -VIII*).
- 23.11 To consider the panel of Examiners for the purpose of Evaluation. (*Annexure -IX*)  
**Resolved** the Panel of Examiners for Evaluation be approved (*Annexure -IX*).
- 23.12 Any other matter with the permission of the chair.

Date: 09.10.2020

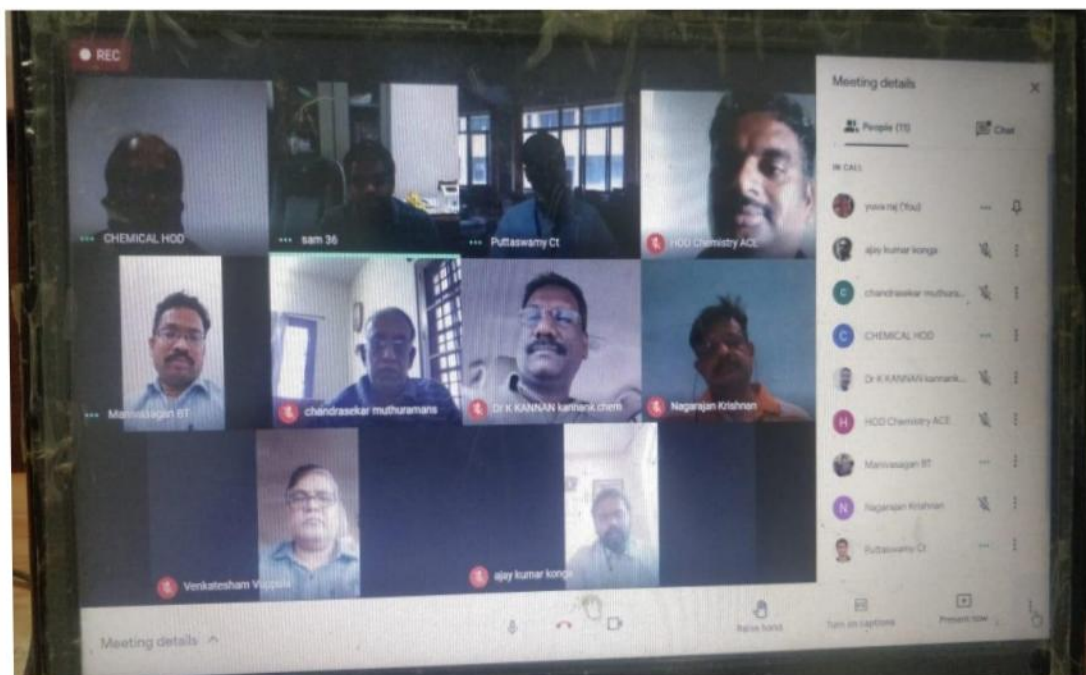
  
Signature of the Chairman

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 109**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**23<sup>rd</sup> & 24<sup>th</sup> Board of Studies meeting of Department of Chemical Engineering held on  
03.04.2021**





**DEPARTMENT OF CHEMICAL ENGINEERING**  
**ADHIYAMAAN COLLEGE OF ENGINEERING,**  
**MODIFICATIONS IN 23rd BOARD OF STUDIES MEETING (09.10.2020)**

<b>Semester</b>	<b>Course Code</b>	<b>Name of the course</b>	<b>Remarks (New course Introduced/contents incorporated in the corresponding course)</b>
V	518CHE03	Introduction to Colloidal Science and Interfacial Engineering	New course Introduced
V	518MEO01	Finite Element Analysis	New course Introduced

**DEPARTMENT OF CHEMICAL ENGINEERING**

**ADHIYAMAAN COLLEGE OF ENGINEERING,**

**MODIFICATIONS IN 23th BOARD OF STUDIES MEETING (09.10.2020)**

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
518CHT03	Heat Transfer	<ul style="list-style-type: none"> <li>➤ Unit-2: Newton's Law of cooling is added</li> <li>➤ Kern, D. Q., "Process Heat Transfer", McGraw-Hill Book Co., 1999. (Added in text books)</li> </ul>
518CHP08	Chemical Engineering Computation Laboratory	<ul style="list-style-type: none"> <li>➤ Experiments on fluid mechanics and heat transfer included</li> </ul>
518CHO01	Energy Conservation in Process Industries	<ul style="list-style-type: none"> <li>➤ Case studies included under Unit-IV</li> </ul>
618CHT02	Chemical Reaction Engineering-I	<ul style="list-style-type: none"> <li>➤ New Course Introduced</li> <li>➤ Molecularity and order of reaction, elementary and non-elementary reactions</li> <li>➤ Unit 5 is renamed as Basics of Non ideal flow</li> </ul>
618CHE03	Pulp and Paper Technology	<ul style="list-style-type: none"> <li>➤ Recycling of waste papers topic is included in unit V.</li> </ul>
618CHP09	Chemical Process Equipment Design & Drawing Lab-I	<ul style="list-style-type: none"> <li>➤ Interchange of Brownell L.E. and Young, E. "Process equipment design" John Wiley, New York, 1966 to reference and Perry, R.H. "Chemical Engineers' Handbook", McGraw-Hill, 8th Ed 2007 to text book.</li> </ul>
518CHE08	Introduction to colloidal & science Interfacial energy	<ul style="list-style-type: none"> <li>➤ New Course Introduced</li> </ul>
618CHT03	Process Dynamics and Control	<ul style="list-style-type: none"> <li>➤ Advanced control system unit is Included</li> </ul>
518CHP07	Heat Transfer Laboratory	<ul style="list-style-type: none"> <li>➤ Evaporator Horizontal &amp; Vertical condenser experiment are included</li> </ul>

Feedback obtained about curriculum and syllabus from Stakeholders (Faculty, Students, Alumni, Employers) were also discussed and concluded



**BoS CHAIRMAN**  
 Chairman, Board of Studies  
 Faculty of Chemical Engineering (UG & PG)  
 Adhiyamaan College of Engineering (Autonomous)  
 HOSUR-635 109.  
 Krishnagiri -Dt, Tamil Nadu.

**Department of Chemical Engineering**



**22<sup>nd</sup> Board of Studies Meeting**

**Date: 07.11.2019**

**Adhiyamaan College of Engineering**

**(An Autonomous Institute Affiliated to Anna University, Chennai)**

**Approved by AICTE, New Delhi**

**Accredited by NAAC with 'B+' Grade – UGC, New Delhi**

**Hosur – 635130**

Adhiyamaan College of Engineering, Hosur- 635 130

(An Autonomous Institution, under Anna University, Chennai)

**Board of Studies – Chemical Engineering**

**22<sup>nd</sup> Board of Studies Meeting in the Department of Chemical Engineering**

**held on 07.11.2019 at 10:00 am**

**MEMBERS PRESENT**

- |                             |                          |
|-----------------------------|--------------------------|
| 1. Dr. N. S. Bhadrinarayana | 6. Dr. N. Bhagyalakshmi  |
| 2. Dr. V. M. Sivakumar      | 7. Dr. V. Venkatesham    |
| 3. Dr. D. Balaji            | 8. Dr. Mitali Das        |
| 4. Mr. Thirumurugan         | 9. Mr. P. Ezhilkumar     |
| 5. Dr. K. Sivakumar         | 10. Mr. Ajay kumar Konga |

- 22.1 To consider the minutes of the 21<sup>st</sup> Board of Studies meeting for B. Tech., Chemical Engineering held on 12.04.2019 for confirmation

**Resolved** that the minutes of 21<sup>st</sup> Board of Studies meeting for B. Tech., Chemical Engineering held on 12.04.2019 has been confirmed

- 22.2 To consider the Choice Based Credit System curricula and syllabi (CBCS) of VIII semester B. Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2016 - 2017

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of VIII semester B. Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2016 - 2017 be approved (**Annexure – I**)

- 22.3 To consider the Choice Based Credit System curricula and syllabi (CBCS) of VI semester B. Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2017-2018

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of VI semester B. Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2017-2018 be approved (**Annexure – II**)

- 22.4 To consider the Choice Based Credit System curricula and syllabi (CBCS) of IV semester B. Tech., Chemical Engineering under **Regulations 2018** for the batch of students admitted in the academic year 2018-2019

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of IV semester B. Tech., Chemical Engineering under **Regulations 2018** for the batch of students admitted in the academic year 2018-2019 be approved (**Annexure – III**)

- 22.5 To consider the Choice Based Credit System curricula and syllabi (CBCS) of II semester B. Tech., Chemical Engineering under **Regulations 2018** for the batch of students admitted in the academic year 2019-2020

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of II semester B. Tech., Chemical Engineering under **Regulations 2018** for the batch of students admitted in the academic year 2019-2020 be approved (Annexure – IV)

- 22.6 To consider the Panel of Examiner for Evaluation

**Resolved** the Panel of Examiners for Evaluation be approved

DATE: 07.11.2019



Chairman

BoS – Chemical Engineering

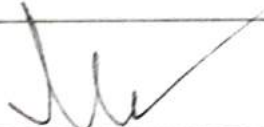
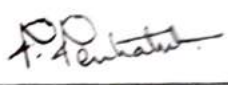
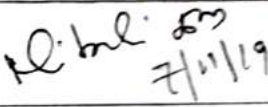
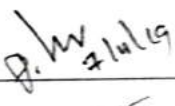
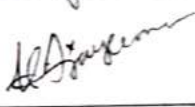


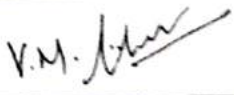

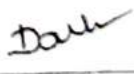
**Adhiyamaan College of Engineering, Hosur- 635 130**  
(An Autonomous Institution, affiliated to Anna University, Chennai)

**Board of Studies – Chemical Engineering**

**22<sup>nd</sup> Board of Studies Meeting in the Department of Chemical Engineering**

\ Held on 07.11.2019 at 10:00 am

MEMBERS PRESENT

S. No	Name of the Member	Category	Signature
1.	Dr. N. S. Badarinarayanan	Chairman, BOS/Chemical Engineering	
2.	Dr. V. Venkatesham	Member, BOS/Chemical Engineering	
3.	Dr. Mitali Das	Member, BOS/Chemical Engineering	
4.	Mr. P. Ezhilkumar	Member, BOS/Chemical Engineering	
5.	Mr. Ajay kumar Konga	Member, BOS/Chemical Engineering	
6.	Dr. N. Bhagyalakshmi	Member, BOS/EIE Inter Disciplinary Member	
7.	Dr. K. Sivakumar	HOD/Chemistry Inter Disciplinary Member	
8.	Dr. R Saravanathamizhan	University Nominee	
9.	Dr. V. M. Sivakumar	Academic Council Nominee	
10.	Dr. G. M. Madhu	Academic Council Nominee	
11.	Mr. Thirumurugan	Industrial Expert	
12.	Dr. D. Balaji	Alumni	

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 130**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**22<sup>nd</sup> Board of Studies meeting of Department of Chemical Engineering held on 07.11.2019**



**DEPARTMENT OF CHEMICAL ENGINEERING  
ADHIYAMAAN COLLEGE OF ENGINEERING,  
MODIFICATIONS IN 22th BOARD OF STUDIES MEETING (07.11.2019)**

<b>Semester</b>	<b>Course Code</b>	<b>Name of the course</b>	<b>Remarks (New course Introduced/contents incorporated in the corresponding course)</b>
VI	615CHE03	Pulp and Paper Technology	New course Introduced
VI	615CHE04	Electrochemical Engineering	New course Introduced
VI	615CHE05	Disaster mitigation and Management	New course Introduced
VI	615EIO01	Analytical Instrumentation	New course Introduced
VIII	815CHE03	Chemical Process flow sheeting	New course Introduced
VIII	815CHE05	Air Pollution Control and Design of Equipment	New course Introduced
VIII	815CHE06	Drugs and Pharmaceutical Technology	New course Introduced
VIII	815CHE07	Heterogeneous Catalysis	New course Introduced
VIII	815CHE08	Bioreactor Design	New course Introduced
VIII	815CHE09	Supply Chain Management	New course Introduced
VIII	815CHE12	Professional Ethics and Human Values	New course Introduced



**DEPARTMENT OF CHEMICAL ENGINEERING  
ADHIYAMAAN COLLEGE OF ENGINEERING,  
MODIFICATIONS IN 22th BOARD OF STUDIES MEETING (07.11.2019)**

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
815CHE05	Air Pollution Control and Design of Equipment	<ul style="list-style-type: none"> <li>➤ Unit-I: "Nature of pollutants from different industries" is included</li> <li>➤ Unit-II changed to Unit - V</li> <li>➤ Unit-IV: "Bag filters and fabric filters" is included</li> </ul>
815CHE07	Heterogeneous Catalysis	<ul style="list-style-type: none"> <li>➤ Environmental catalysis has been removed from Unit - 1</li> <li>➤ Catalyst deactivation from Unit-III moved to Unit - V</li> <li>➤ Heat and Mass transfer effects in heterogeneous catalysis, internal and external mass transfer limitations. from Unit-IV moved to Unit-V</li> <li>➤ Unit-V: Insitu characterization is removed</li> </ul>
815CHE08	Bioreactor Design	<ul style="list-style-type: none"> <li>➤ Unit-III: study of mass transfer coefficient-k<sub>La</sub> studies is included</li> <li>➤ Unit - IV: gas flow meter and single-use bioreactors is included.</li> <li>➤ Unit-V: "microbial or animal cell culture" is removed</li> </ul>
615CHE06	Food Science and Technology	<ul style="list-style-type: none"> <li>➤ Unit - II: "conservation operations" is included</li> <li>➤ Unit-III: "Government regulations" is removed</li> <li>➤ Unit V changed to Unit - III.</li> </ul>
615CHT03	Process Dynamics and Control	<ul style="list-style-type: none"> <li>➤ Unit-V: "Advanced control system" is included</li> </ul>
418CHT02	Physical Chemistry	<ul style="list-style-type: none"> <li>➤ Unit-I: "Arrhenius theory" is removed</li> <li>➤ Unit-II: "Vant Hoff's theory of kinetics" is included</li> <li>➤ Unit-III: "Theory of osmosis" is included</li> </ul>
418CHT04	Chemical Engineering Fluid Mechanics	<ul style="list-style-type: none"> <li>➤ Unit I: "Rayleigh's Method" is included</li> <li>➤ Unit-II: "Euler's equation" and "Navier - stoke's equation" is included</li> </ul>
418CHT05	Mechanical Operations	<ul style="list-style-type: none"> <li>➤ Unit I: "principles of size enlargement" is included, "Communion - principles of Communion, laws and energy requirements" from Unit - I moved to Unit-II</li> <li>➤ Unit - IV: "Filtration-types-dead end filtration - cross flow filtration" is included</li> </ul>
X18MC01	Indian Constitution	<ul style="list-style-type: none"> <li>➤ New Course Introduced</li> </ul>

Feedback obtained about curriculum and syllabus from Stakeholders(Faculty, Students, Alumni, Employers) were also discussed and concluded



  
**BoS CHAIRMAN**  
 Chairman, Board of Studies  
 Faculty of Chemical Engineering (UG& PG)  
 Adhiyamaan College of Engineering (Autonomous)  
 HOSUR - 635 109.  
 Krishnagiri -Dt, Tamil Nadu.

## Department of Chemical Engineering



### 21<sup>st</sup> Board of Studies Meeting

**Date: 12.04.2019**

## **Adhiyamaan College of Engineering**

(An Autonomous Institute Affiliated to Anna University, Chennai)

Approved by AICTE, New Delhi

Accredited by NAAC with 'A' Grade – UGC, New Delhi

Hosur – 635130

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Adhiyamaan College of Engineering, Hosur- 635 130  
(An Autonomous Institution, under Anna University, Chennai)

Board of Studies – Chemical Engineering

21<sup>st</sup> Board of Studies Meeting in the Department of Chemical Engineering

held on 12.04.2019 at 10:00 am

**MEMBERS PRESENT**

1. **Dr. N. S. Bhadrinarayana**, Professor/ Chemical Engineering, Chairman
  2. **Dr. V. Venkatesham**, Professor/ Chemical Engineering, Member
  3. **Dr. K. Sivakumar**, HOD/Chemistry Inter Disciplinary Member
  4. **Dr. Mitali Das**, Associate Professor / Chemical Engineering, Member
  5. **Dr. S Jayakumar**, Assistant Professor / Chemical Engineering, Member
  6. **Mr. P.Ezhilkumar**, Assistant Professor / Chemical Engineering, Member
  7. **Mr. Ajay kumar Konga**, Assistant Professor / Chemical Engineering, Member
  8. **Dr. R Saravanathamizhan**, University Nominee
  9. **Dr. V. M. Sivakumar**, Academic Council Nominee
  10. **Dr. D. Balaji**, Alumni
  11. **Mr. Thirumurugan**, Industrial Expert
- 
- 21.1 To consider the minutes of the 20<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 27.10.2018 for confirmation  
**Resolved** that the minutes of 20<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 27.10.2018 has been confirmed
  - 21.2 To consider the Choice Based Credit System curricula and syllabi (CBCS) of VII semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2016- 2017  
**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of VII semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2016- 2017 be approved (**Annexure – I**)
  - 21.3 To consider the Choice Based Credit System curricula and syllabi (CBCS) of V semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2017-2018  
**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of V semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2017-2018 be approved (**Annexure – II**)

21.4 To consider the Choice Based Credit System curricula and syllabi (CBCS) of III semester B.Tech., Chemical Engineering under Regulations 2018 for the batch of students admitted in the academic year 2018-2019

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of III semester B.Tech., Chemical Engineering under Regulations 2018 for the batch of students admitted in the academic year 2018-2019 be approved (**Annexure - III**)

21.5 To consider the Panel of Examiner for Evaluation

**Resolved** the Panel of Examiners for Evaluation be approved

DATE: 12.04.2019



BoS - Chairman




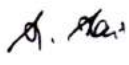
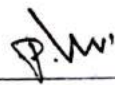

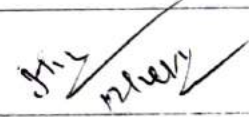

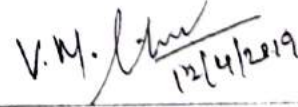

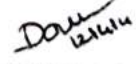
**Adhiyamaan College of Engineering, Hosur- 635 130**  
(An Autonomous Institution, affiliated to Anna University, Chennai)

**Board of Studies – Chemical Engineering**

**21<sup>st</sup> Board of Studies Meeting in the Department of Chemical Engineering**

**Held on 12.04.2019 at 10:00 am**

**MEMBERS PRESENT**

S. No	Name of the Member	Category	Signature
1.	Dr. N. S. Badarinarayanan	Chairman, BOS/Chemical Engineering	
2.	Dr. V. Venkatesham	Member, BOS/Chemical Engineering	
3.	Dr. Mitali Das	Member, BOS/Chemical Engineering	
4.	Dr. S Jayakumar	Member, BOS/Chemical Engineering	
5.	Mr. P. Ezhilkumar	Member, BOS/Chemical Engineering	
6.	Mr. Ajay kumar Konga	Member, BOS/Chemical Engineering	
7.	Dr. K. Sivakumar	HOD/Chemistry Inter Disciplinary Member	
8.	Dr. R Saravanathamizhan	University Nominee	 12/4/19
9.	Dr. V. M. Sivakumar	Academic Council Nominee	 12/4/2019
10.	Dr. G. M. Madhu	Academic Council Nominee	
11.	Mr. Thirumurugan	Industrial Expert	
12.	Dr. D. Balaji	Alumni	 12/4/19

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 109**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**21<sup>st</sup> Board of Studies Meeting in Department of Chemical Engineering held on 12.04.2019**



**DEPARTMENT OF CHEMICAL ENGINEERING  
ADHIYAMAAN COLLEGE OF ENGINEERING,  
MODIFICATIONS IN 21th BOARD OF STUDIES MEETING (12.04.2019)**

<b>Semester</b>	<b>Course Code</b>	<b>Name of the course</b>	<b>Remarks (New course Introduced/contents incorporated in the corresponding course)</b>
V	515CHE02	Fuel cell Technology	New course Introduced
V	515CHO01	Energy Conservation in Process Industries	New course Introduced
V	515CHP09	Employability skills Laboratory	New course Introduced
VII	715CHE01	Mathematical Methods for Chemical Engineers	New course Introduced
VII	715CHE03	Introduction to Statistical Thermodynamics	New course Introduced
VII	715CHE05	Solid waste Management	New course Introduced
VII	715CHE06	Programming Using MATLAB	New course Introduced
VII	715CHE09	Catalyst Science and Technology	New course Introduced

**DEPARTMENT OF CHEMICAL ENGINEERING  
ADHIYAMAAN COLLEGE OF ENGINEERING,  
MODIFICATIONS IN 21th BOARD OF STUDIES MEETING (12.04.2019)**

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
318CHT02	Organic Chemistry	<ul style="list-style-type: none"> <li>➤ Unit I-Unit Processes: Introduced newly. Important unit processes that are common to chemical industry are included</li> <li>➤ Unit-IV-Amino acids and proteins: Introduced newly. In place of synthetic chemistry</li> </ul>
318CHT03	Chemical Process Calculations	<ul style="list-style-type: none"> <li>➤ Unit II - Behaviour of Ideal gases and Vapour-Gas Concepts: Behaviour of Ideal gases is shifted from Unit-I</li> <li>➤ Humidity calculations are shifted from Unit IV</li> <li>➤ Unit IV - Energy Balance: Unit V is shifted here. Energy balance of on simple unit operations introduced</li> <li>➤ Unit V-Fuels and Combustion: Unit IV is shifted to maintain proper flow sequence of subject</li> </ul>
318CHT04	Instrumental Methods of Analysis	<ul style="list-style-type: none"> <li>➤ Unit II - Qualitative Analysis by UV and Visible Spectroscopy: All laws, Principles and applications (Unit II)</li> <li>➤ Unit III - Quantitative Analysis by UV and Visible Spectroscopy: Estimation methods different important chemical species</li> <li>➤ Unit IV-IR Spectroscopy: Newly added</li> <li>➤ Previous Unit III and Unit IV are removed as those methods are not used at present scenario</li> </ul>
318CHE08	Analytical Chemistry	<ul style="list-style-type: none"> <li>➤ Unit I: Wet chemical methods of analysis: <b>Newly introduced</b></li> <li>➤ <b>Unit</b> II: Spectral methods: Newly introduced</li> <li>➤ Unit III: Electro analytical techniques: Unit V is shifted</li> <li>➤ Unit IV Separation Technique Unit TV is renamed</li> <li>➤ Unit V: Thermal methods of analysis, sampling and evaluation added</li> </ul>
318CHP08	Technical Analysis Laboratory	<ul style="list-style-type: none"> <li>➤ Following experiment are included</li> <li>➤ Viscosity measurement</li> <li>➤ COD analysis</li> <li>➤ Calorific value determination using bomb calorimeter</li> <li>➤ Determination of nitrite in water</li> </ul>

Feedback obtained about curriculum and syllabus from Stakeholders(Faculty, Students, Alumni, Employers) were also discussed and concluded



  
**BoS CHAIRMAN**  
 Chairman, Board of Studies  
 Faculty of Chemical Engineering (UG& PG)  
 Adhiyamaan College of Engineering (Autonomous)  
 HOSUR-635 109.  
 Krishnagiri -Dt, Tamil Nadu.



Department of Chemical Engineering



20<sup>th</sup> Board of Studies Meeting

Date: 27.10.2018

Adhiyamaan College of Engineering

(An Autonomous Institute Affiliated to Anna University, Chennai)

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Hosur – 635130

Adhiyamaan College of Engineering, Hosur- 635 130  
(An Autonomous Institution, under Anna University, Chennai)

**Board of Studies – Chemical Engineering**

**20<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering**

held on 27.10.2018 at 10:00 am

**MEMBERS PRESENT**

- |                             |                          |
|-----------------------------|--------------------------|
| 1. Dr. N. S. Bhadrinarayana | 6. Dr. V. Venkatesham    |
| 2. Dr. R Saravanathamizhan  | 7. Dr. Mitali Das        |
| 3. Dr. V. M. Sivakumar      | 8. Dr. S Jayakumar       |
| 4. Dr. D. Balaji            | 9. Mr. P.Ezhilkumar      |
| 5. Dr. K. Sivakumar         | 10. Mr. Ajay kumar Konga |

- 20.1 To consider the minutes of the 19<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 11.04.2018 for confirmation

**Resolved** that the minutes of 19<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 11.04.2018 has been confirmed

- 20.2 To consider the Choice Based Credit System curricula and syllabi (CBCS) of VIII semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2015- 2016

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of VIII semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2015- 2016 be approved (**Annexure – I**)

- 20.3 To consider the Choice Based Credit System curricula and syllabi (CBCS) of VI semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2016-2017

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of VI semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2016-2017 be approved (**Annexure – II**)

- 20.4 To consider the Choice Based Credit System curricula and syllabi (CBCS) of IV semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2017-2018

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of IV semester B.Tech., Chemical Engineering under **Regulations 2015** for the batch of students admitted in the academic year 2017-2018 be approved (**Annexure – III**)

- 20.5 To consider the Choice Based Credit System curricula and syllabi (CBCS) of II semester B.Tech., Chemical Engineering under **Regulations 2018** for the batch of students admitted in the academic year 2018-2019

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of II semester B.Tech., Chemical Engineering under **Regulations 2018** for the batch of students admitted in the academic year 2018-2019 be approved (Annexure – IV)

- 20.6 To consider the Evaluation Pattern pertaining to regulations-2018 (CBCS).

- IA (Internal Assessment) & EA (External Assessment) marks ratio.
- Continuous assessment (IA) Marks Allocation.
- End Assessment Question Paper Pattern.
- One Credit Course over and above the total credits to be earned.

**Resolved** that the Evaluation Pattern pertaining to regulation-2018 (CBCS)

- IA (Internal Assessment) & EA (External Assessment) marks ratio.
- Continuous assessment (IA) Marks Allocation.
- End Assessment Question Paper Pattern.
- One Credit Course over and above the total credits to be earned.  
be approved. (Annexure-V)

- 20.7 To consider the Panel of Examiner for Evaluation

**Resolved** the Panel of Examiners for Evaluation be approved

DATE: 27.10.2018



**BoS - Chairman**

Chairman, Board of Studies  
Faculty of Chemical Engineering (UG & PG)  
Sri Jayaraman College of Engineering (Autonomous)  
Hosur - 635 109  
Tamil Nadu

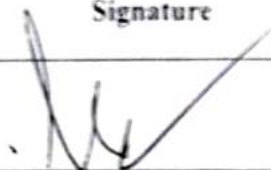


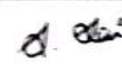
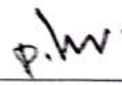
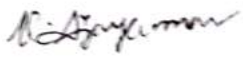

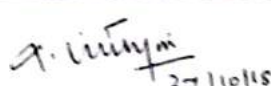
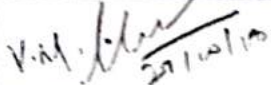
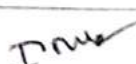
Adhiyamaan College of Engineering, Hosur- 635 109  
(An Autonomous Institution, under Anna University, Chennai)

Board of Studies - Chemical Engineering

20<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering

Held on 27.10.2018 at 10:00 am

MEMBERS PRESENT

S.No	Name of the Member	Category	Signature
1	Dr.N.S.Badarinarayanan	Chairman, BOS/Chemical Engineering	
2	Dr. V. Venkatesham	Member, BOS/Chemical Engineering	
3	Dr. Mitali Das	Member, BOS/Chemical Engineering	
4	Dr. S Jayakumar	Member, BOS/Chemical Engineering	
5	Mr. P. Ezhilkumar	Member, BOS/Chemical Engineering	
6	Mr. Ajay kumar Konga	Member, BOS/Chemical Engineering	
7	Dr. K. Sivakumar	HOD/Chemistry Inter Disciplinary Member	
8	Dr. R Saravanathamizhan	University Nominee	
9	Dr. V. M. Sivakumar	Academic Council Nominee	
10	Dr. G. M. Madhu	Academic Council Nominee	
11	Mr. Thirumurugan	Industrial Expert	
12	Dr. D. Balaji	Alumni	

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 109**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**20<sup>th</sup> Board of Studies Meeting in Department of Chemical Engineering held on 27.10.2018**



**DEPARTMENT OF CHEMICAL ENGINEERING****ADHIYAMAAN COLLEGE OF ENGINEERING,****MODIFICATIONS IN 20th BOARD OF STUDIES MEETING (27.10.2018)**

<b>Course Code</b>	<b>Name of the course</b>	<b>Remarks (New course Introduced/contents incorporated in the corresponding course)</b>
415CHE01	Polymer Science and Technology	New course Introduced
415CHE02	Sugar Technology	New course Introduced
415CHE03	Renewable Energy Technologies	New course Introduced
415CHE04	Plastics Engineering	New course Introduced
415CHE05	Heat Power Engineering	New course Introduced
415CHE06	Fuel and Combustion Technologies	New course Introduced
615CHE03	Pulp and Paper Technology	New course Introduced
615CHE04	Electrochemical Engineering	New course Introduced
615CHE05	Disaster mitigation and Management	New course Introduced
615EIO01	Analytical Instrumentation	New course Introduced
815CHE03	Chemical Process flow sheeting	New course Introduced
		New course Introduced
815CHE05	Air Pollution Control and Design of Equipment	
815CHE06	Drugs and Pharmaceutical Technology	New course Introduced
815CHE07	Heterogeneous Catalysis	New course Introduced
815CHE08	Bioreactor Design	New course Introduced
815CHE09	Supply Chain Management	New course Introduced
815CHE12	Professional Ethics and Human Values	New course Introduced

**DEPARTMENT OF CHEMICAL ENGINEERING**

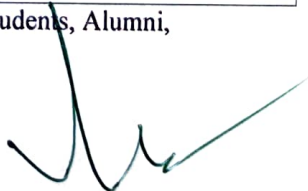
**ADHIYAMAAN COLLEGE OF ENGINEERING,**

**MODIFICATIONS IN 20th BOARD OF STUDIES MEETING (27.10.2018)**

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
815CHE03	Chemical Process Flow Sheeting	<ul style="list-style-type: none"> <li>➤ Unit-1 flow sheeting software changed to Unit - V</li> <li>➤ Unit - V Applications of P&amp;ID in Hazop for specific Industries was included.</li> </ul>
815CHE05	Air Pollution Control and Design of Equipment	<ul style="list-style-type: none"> <li>➤ Unit-I: "Nature of pollutants from different industries" is included</li> <li>➤ Unit-II changed to Unit -" V</li> <li>➤ Unit-IV: "Bag filters and fabric filters" is included</li> <li>➤ Added "AIR (P&amp;CP) Act, 1981" as second unit</li> <li>➤ Added "Air Pollution Monitoring" as third Unit</li> <li>➤ Cyclone Separators &amp; Fabric Filters are combined to Unit - IV</li> <li>➤ Electrostatic Precipitator &amp; Wet Scrubbers are combined to Unit - V</li> </ul>
815CHE07	Heterogeneous Catalysis	<ul style="list-style-type: none"> <li>➤ Catalyst Preparation and Characterization from Unit - IV is changed to Unit - II</li> <li>➤ Kinetic modelling and interpretation of heterogeneous data analysis Unit - II is changed to Unit IV</li> </ul>
815CHE08	Bioreactor Design	<ul style="list-style-type: none"> <li>➤ Rheology, Aeration and Agitation in Animal Cell Bioreactors are included in Unit - III</li> <li>➤ Types of Bioreactors and Accessories was changed to Unit-IV from Unit - V</li> <li>➤ Design of a Bioreactor changed to unit - V from Unit - IV</li> </ul>
815CHE09	Supply Chain Management	<ul style="list-style-type: none"> <li>➤ Following Reference book was added</li> </ul>
815CHE11	Agitation and Mixing Technology	<ul style="list-style-type: none"> <li>➤ Power correlations have been removed from Unit - V</li> </ul>
218ESE08	Chemistry for Technologists	<ul style="list-style-type: none"> <li>➤ Newly Introduced Course</li> </ul>

Feedback obtained about curriculum and syllabus from Stakeholders(Faculty, Students, Alumni, Employers) were also discussed and concluded



  
**BoS CHAIRMAN**  
 Chairman, Board of Studies  
 Faculty of Chemical Engineering (UG& PG)  
 Adhiyamaan College of Engineering (Autonomous)  
 HOSUR-635 109.  
 Krishnagiri -Dt, Tamil Nadu.

## Department of Chemical Engineering



### 19<sup>th</sup> Board of Studies Meeting

**Date: 11.04.2018**

## **Adhiyamaan College of Engineering**

(An Autonomous Institute Affiliated to Anna University, Chennai)

Approved by AICTE, New Delhi

Accredited by NAAC with 'A' Grade – UGC, New Delhi

Hosur – 635109



**Adhiyamaan College of Engineering, Hosur- 635 109**  
(An Autonomous Institution, under Anna University, Chennai)

**Board of Studies – Chemical Engineering**

**19<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering**

**held on 11.04.2018 at 02:00 pm**

**MEMBERS PRESENT**

- |                             |                         |
|-----------------------------|-------------------------|
| 1. Dr. N. S. Bhadrinarayana | 6. Dr. K. Sivakumar     |
| 2. Dr. S. Renganathan       | 7. Mr. P.Ezhilkumar     |
| 3. Mr.M.Chandrasekar        | 8. Mrs. R. Umapiya      |
| 4. Mr. M. Sabarinathan      | 9. Mr. Ajay kumar Konga |
| 5. Dr.V.Manivasagan         | 10. Mrs.E.Yuvanashree   |

**19.1** To consider the minutes of the 18<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 21.10.2017 for confirmation

**Resolved** that the minutes of 18<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 21.10.2017 has been confirmed

**19.2** To consider the curricula and syllabi of VII semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2015- 2016

**Resolved** that the curricula and syllabi of VII semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2015- 2016 be approved (Annexure – I)

**19.3** To consider the Choice Based Credit System curricula and syllabi (CBCS) of V semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2016-2017

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of V semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2016-2017 be approved (Annexure – II)

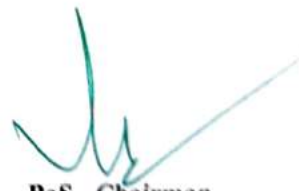
**19.4** To consider the Choice Based Credit System curricula and syllabi (CBCS) of II semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2017-2018

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of IV semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2017-2018 be approved (Annexure – II)

**19.5** To consider the Choice Based Credit System curricula and syllabi (CBCS) of I semester B.Tech., Chemical Engineering under Regulations 2018 for the batch of students admitted in the academic year 2018-2019

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of I semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2018-2019 be approved (Annexure – I)

**DATE: 11.04.2018**



**BoS - Chairman**











Chairman, Board of Studies  
Faculty of Chemical Engineering (UG & PG)  
Jyoti Basappa Chitambar College of Engineering (Autonomous)  
Hosur - 635 109  
Phone: 082422 22222

**Board of Studies – Chemical Engineering**

**19<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering**

**Held on 11.04.2018 at 02.00 pm**

**MEMBERS PRESENT**

S.No	Name of the Member	Category	Signature
1.	Dr.N.S.Badarinarayanan	Chairman, BOS/Chemical Engineering	
2.	Mr. P. Fzhilkumar	Member, BOS/Chemical Engineering	
3.	Mrs. R. Umapriya	Assistant Professor, BOS/Chemical Engineering	
4.	Mr. Ajay kumar Konga	Assistant Professor, BOS/Chemical Engineering	
5.	Mrs. Yuvanashree E	Assistant Professor, BOS/Chemical Engineering	
6.	Dr. V. Manivasagan	Professor, Biotechnology Inter-Disciplinary Member	
7.	Dr. K. Sivakumar	HOD, Chemistry Inter-Disciplinary Member	
8.	Dr. K. Saravanan	University Nominee	
9.	Dr. S. Renganathan	Academic Council Member	
10.	Mr. M. Chandrasekar	Industrial Expert	
11.	Mr. M. Subramanian	Alumni	

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 109**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**19<sup>th</sup> Board of Studies Meeting in Department of Chemical Engineering held on 11.04.2018**



**DEPARTMENT OF CHEMICAL ENGINEERING**  
**ADHIYAMAAN COLLEGE OF ENGINEERING,**  
**MODIFICATIONS IN 19th BOARD OF STUDIES MEETING (11.04.2018)**

<b>Course Code</b>	<b>Name of the course</b>	<b>Remarks (New course Introduced/contents incorporated in the corresponding course)</b>
315EET05	Principles of Electrical and Electronics Engineering	New course Introduced
315CHE01	Analytical Chemistry	New course Introduced
315CHE02	Process Organic Synthesis	New course Introduced
315CHE03	Green Chemistry and Engineering	New course Introduced
315CHE04	Solid Mechanics for Technologists	New course Introduced
315CHE05	Materials Technology	New course Introduced
315CHE06	Composite Materials	New course Introduced
515CHE02	Fuel cell Technology	New course Introduced
515CHO01	Energy Conservation in Process Industries	New course Introduced
515CHP09	Employability skills Laboratory	New course Introduced
715CHE01	Mathematical Methods for Chemical Engineers	New course Introduced
715CHE03	Introduction to Statistical Thermodynamics	New course Introduced
715CHE05	Solid waste Management	New course Introduced
715CHE06	Programming Using MATLAB	New course Introduced
715CHE09	Catalyst Science and Technology	New course Introduced

**DEPARTMENT OF CHEMICAL ENGINEERING**  
**ADHIYAMAAN COLLEGE OF ENGINEERING,**  
**MODIFICATIONS IN 19th BOARD OF STUDIES MEETING (11.04.2018)**

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
71SCHE02	Biochemical Engineering	<ul style="list-style-type: none"><li>➤ Unit - III: Added enzymes inhibition and types</li><li>➤ Unit-III: Added Michaelis-Menten kinetics</li></ul>
71SCHE03	Introduction to statistical Thermodynamics	<ul style="list-style-type: none"><li>➤ Unit-I: Added VLE Calculations</li></ul>
71SCHE10	Fundamentals of Nanotechnology	<ul style="list-style-type: none"><li>➤ Unit-V: Added FESEM, TEM</li></ul>

Value Added courses were recommended (Beyond the Curriculum)

Feedback obtained about curriculum and syllabus from Stakeholders(Faculty, Students, Alumni, Employers) were also discussed and concluded



**BoS CHAIRMAN**  
Chairman, Board of Studies  
Faculty of Chemical Engineering (UG& PG)  
Adhiyamaan College of Engineering (Autonomous)  
HOSUR-635 109.  
Krishnagiri -Dt, Tamil Nadu.

## **Department of Chemical Engineering**



### **18<sup>th</sup> Board of Studies Meeting**

**Date: 21.10.2017**

## **Adhiyamaan College of Engineering**

**(An Autonomous Institute Affiliated to Anna University, Chennai)**

**Approved by AICTE, Accredited by NBA, New Delhi**

**Accredited by NAAC with 'A' Grade – UGC, New Delhi**

**An ISO 9001:2008 Certified Institution**

**Hosur – 635109**

**Adhiyamaan College of Engineering, Hosur- 635 109**  
(An Autonomous Institution, under Anna University, Chennai)

**Board of Studies – Chemical Engineering**

**18<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering**

**held on 21.10.2017 at 10:00 am**

**MEMBERS PRESENT**

- |                             |                      |
|-----------------------------|----------------------|
| 1. Dr. N. S. Bhadrinarayana | 5. Dr.V.Manivasagan  |
| 2. Dr. K. Saravanan         | 6. Dr. K. Sivakumar  |
| 3. Dr. S. Renganathan       | 7. Mr. P.Ezhilkumar  |
| 4. Mr.M.Chandrasekar        | 8. Mrs.E.Yuvanashree |

**18.1** To consider the minutes of the 17<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 21.10.2017 for confirmation

**Resolved** that the minutes of 17<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 21.10.2017 has been confirmed

**18.2** To consider the Choice Based Credit System curricula and syllabi (CBCS) of II semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2017-2018

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of II semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2017-2018 be approved (Annexure – I)

**18.3** To consider the Choice Based Credit System curricula and syllabi (CBCS) of IV semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2016-2017

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of IV semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2016-2017 be approved (Annexure – II)



18.4 To consider the Choice Based Credit System curricula and syllabi (CBCS) of VI semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2015-2016

**Resolved** that the Choice Based Credit System curricula and syllabi (CBCS) of VI semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2015-2016 be approved (Annexure – III)

18.5 To consider the curricula and syllabi of VIII semester B.Tech., Chemical Engineering under Regulations 2011 for the batch of students admitted in the academic year 2014- 2015

**Resolved** that the curricula and syllabi of VIII semester B.Tech., Chemical Engineering under Regulations 2011 for the batch of students admitted in the academic year 2014- 2015 be approved (Annexure – IV)

DATE: 21.10.2017



**BoS - Chairman**

Chairman, Board of Studies  
Faculty of Chemical Engineering (UG & PG)  
Sathyamaan College of Engineering (Autonomous)  
Hosur - 635 109

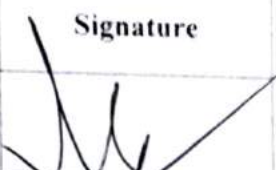

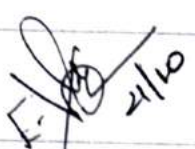


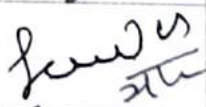
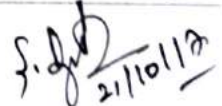
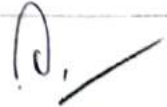
**Adhiyamaan College of Engineering, Hosur- 635 109**  
(An Autonomous Institution, under Anna University, Chennai)

**Board of Studies – Chemical Engineering**

**18<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering**

**Held on 21.10.2017 at 10:00 am**

**MEMBERS PRESENT**

<b>S.No</b>	<b>Name of the Member</b>	<b>Category</b>	<b>Signature</b>
1.	Dr.N.S.Badarinarayanan	Chairman, BOS/Chemical Engineering	
2.	Mr. P. Fzhilkumar	Member, BOS/Chemical Engineering	
3.	Mrs. R. Umapriya	Assistant Professor, BOS/Chemical Engineering	
4.	Mr. Ajay kumar Konga	Assistant Professor, BOS/Chemical Engineering	
5.	Ms. Yuvanashree E	Assistant Professor, BOS/Chemical Engineering	 21/10
6.	Dr. V. Manivasagan	Professor/Biotechnology, Inter Disciplinary Member	 21/10/17
7.	Dr. K. Sivakumar	HOD/Chemistry Inter Disciplinary Member	
8.	Dr. K. Saravanan	University Nominee	 21/10
9.	Dr. S. Renganathan	Academic Council Nominee	 21/10/17
10.	Dr. Thomas Theodore	Academic Council Nominee	
11.	Mr. M. Chandrasekar	Industrial Expert	
12.	Mr. M. Sabarinathan	Alumni	

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 109**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**18<sup>th</sup> Board of Studies Meeting in Department of Chemical Engineering held on 21.10.2017**



**DEPARTMENT OF CHEMICAL ENGINEERING**

**ADHIYAMAAN COLLEGE OF ENGINEERING,**

**MODIFICATIONS IN 18th BOARD OF STUDIES MEETING (21.10.2017)**

<b>Course Code</b>	<b>Name of the course</b>	<b>Remarks (New course Introduced/contents incorporated in the corresponding course)</b>
415CHE02	Sugar Technology	New course Introduced
415CHE03	Renewable Energy Technologies	New course Introduced
415CHE04	Plastics Engineering	New course Introduced
415CHE05	Heat Power Engineering	New course Introduced
415CHE06	Fuel and Combustion Technologies	New course Introduced
615CHE01	Energy Conservation and Management in Process Industries	New course Introduced
615CHE02	Industrial Management	New course Introduced
615CHE03	Pulp and Paper Technology	New course Introduced
615CHE04	Electrochemical Engineering	New course Introduced
615CHE05	Disaster mitigation and Management	New course Introduced
615EIO01	Analytical Instrumentation	New course Introduced
811CHE01	Pilot Plants and Scale-up methods in Chemical Engineering	New course Introduced
811CHE02	Oil and Natural Gas Engineering	New course Introduced
811CHE03	Environmental Impact Assessment	New course Introduced
811CHE04	Pulp and Paper Technology	New course Introduced
811CHE05	Pollution Control in Process Industries	New course Introduced
811CHE06	Nuclear Engineering	New course Introduced
811CHE08	Electrochemical Engineering	New course Introduced
811CHE09	Process Instrumentation	New course Introduced
811CHE10	Corrosion Engineering	New course Introduced
811CHE11	Mixing Technology	New course Introduced
811CHE12	Piping Engineering	New course Introduced

**DEPARTMENT OF CHEMICAL ENGINEERING**

**ADHIYAMAAN COLLEGE OF ENGINEERING,**

**MODIFICATIONS IN 18th BOARD OF STUDIES MEETING (21.10.2017)**

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
415CHT04	Chemical Engineering Fluid Mechanics	<ul style="list-style-type: none"> <li>➤ Introduction to types of manometers topic is included in unit-I</li> <li>➤ Pressure drop measurements topic is included in unit - I</li> </ul>
615CHT01	Mass Transfer - II	<ul style="list-style-type: none"> <li>➤ Modern separation techniques such as membrane separation, microfiltration, dialysis, electro dialysis, reverse osmosis, and Ultra filtration are included in unit - IV</li> </ul>
615CHT02	Chemical Reaction Engineering	<ul style="list-style-type: none"> <li>➤ The topic Need of Chemical Reaction Engineering is included in unit - I</li> </ul>
615CHT03	Process Dynamics and Control	<ul style="list-style-type: none"> <li>➤ Fractional order controls topic was included in unit - IV</li> <li>➤ Introduction to DCS topic was included in unit - IV</li> <li>➤ Introduction to non-linear parameters topic was included in unit - V</li> <li>➤ Unit-V: "Advanced control system" is included</li> </ul>
615CHT04	Chemical Process Plant Safety	<ul style="list-style-type: none"> <li>➤ Safety color codes &amp; Symbols topic was included in unit - II</li> <li>➤ Hazop Studies topic was included in unit - V</li> </ul>
615CHP09	Chemical Process Equipment Design & Drawing Lab-I	<ul style="list-style-type: none"> <li>➤ Design and Drawing of Plug Flow Reactors is additionally included</li> </ul>
615CHE03	Pulp and Paper Technology	<ul style="list-style-type: none"> <li>➤ Sulphide &amp; Sulphite pulping process is included in unit-II</li> <li>➤ Kappa number, coated paper, special papers, conditioning of paper in pulp yards is included in unit V</li> </ul>

Feedback obtained about curriculum and syllabus from Stakeholders(Faculty, Students, Alumni, Employers) were also discussed and concluded



**BoS CHAIRMAN**

Chairman, Board of Studies  
Faculty of Chemical Engineering (UG& PG)  
Adhiyamaan College of Engineering (Autonomous)  
HOSUR-635 109.  
Krishnagiri -Dt, Tamil Nadu.

## **Department of Chemical Engineering**



### **17<sup>th</sup> Board of Studies Meeting**

**Date: 13.04.2017**

## **Adhiyamaan College of Engineering**

**(An Autonomous Institute Affiliated to Anna University, Chennai)**

**Approved by AICTE, Accredited by NBA, New Delhi**

**Accredited by NAAC with 'A' Grade – UGC, New Delhi**

**An ISO 9001:2008 Certified Institution**

**Hosur – 635109**

**Adhiyamaan College of Engineering, Hosur- 635 109**  
(An Autonomous Institution, under Anna University, Chennai)

**Board of Studies – Chemical Engineering**

**Minutes of the 17<sup>th</sup> Meeting of Board of Studies in Department of Chemical Engineering**  
**held on 13.04.2017 at 02.00 pm**

**MEMBERS PRESENT**

- |                         |                             |
|-------------------------|-----------------------------|
| 1. Dr. K. V. Selvakumar | 7. Dr. N. S. Bhadrinarayana |
| 2. Dr. K. Saravanan     | 8. Dr.V.Manivasagan         |
| 3. Dr. S. Renganathan   | 9. Dr. K. Sivakumar         |
| 4. Dr. Thomas Theodore  | 10. Mr. J. Rohan            |
| 5. Mr.M.Chandrasekar    | 11. Mrs. Umapriya           |
| 6. Mr. M. Sabarinathan  |                             |

- 17.1 To consider the minutes of the 16<sup>th</sup> Board of Studies meeting for B.Tech., Chemical Engineering held on 21.10.2016 for confirmation

**RESOLVED** that the minutes of the 16<sup>th</sup> meeting of the Board of Studies for B.Tech Chemical Engineering held on 21.10.2016 has been confirmed

- 17.2 To consider the Choice Based Credit System curricula and syllabi (CBCS) of III semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2016-2017

**RESOLVED** that Choice Based Credit System curricula and syllabi (CBCS) of III semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2016-2017 be approved (Annexure – I)

- 17.3 To consider the Choice Based Credit System curricula and syllabi (CBCS) of V semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2015-2016

**RESOLVED** that Choice Based Credit System curricula and syllabi (CBCS) of V semester B.Tech., Chemical Engineering under Regulations 2015 for the batch of students admitted in the academic year 2015-2016 be approved (Annexure – II)

- 17.4 To consider the curricula and syllabi of VII semester B.Tech., Chemical Engineering under Regulations 2011 for the batch of students admitted in the academic year 2014-2015

**RESOLVED** that the curricula and syllabi of VII semester B.Tech., Chemical Engineering under Regulations 2011 for the batch of students admitted in the academic year 2014-2015 be approved (Annexure – III)

DATE: 13.04.2017



**BoS – Chairman**

Chairman, Board of Studies  
Faculty of Chemical Engineering (UG & PG)  
Shriyama College of Engineering (Autonomous)  
Hosur - 535 109  
Karnataka, India



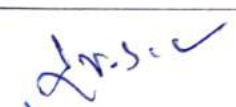
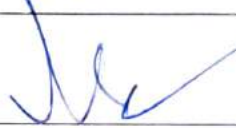
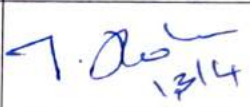
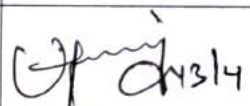
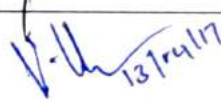
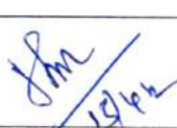




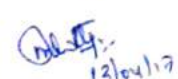
**Adhiyamaan College of Engineering, Hosur- 635 109**  
(An Autonomous Institution, under Anna University, Chennai)

**Board of Studies – Chemical Engineering**

17<sup>th</sup> Board of Studies Meeting in the Department of Chemical Engineering

Held on 13.04.2017 at 2:00 pm

**MEMBERS PRESENT**

S.No	Name of the Member	Category	Signature
1.	Dr. K. V. Selvakumar	Chairman, BOS/Chemical Engineering	
2.	Dr. N. S. Bhadrinarayana	Member, BOS/Chemical Engineering	
3.	Mr. P. Ezhilkumar	Assistant Professor, BOS/Chemical Engineering	-
4.	Mr. J. Rohan	Assistant Professor, BOS/Chemical Engineering	 13/4
5.	Mrs. R. Umapriya	Assistant Professor, BOS/Chemical Engineering	 13/4
6.	Dr. V. Manivasagan	Professor/Biotechnology, Inter Disciplinary Member	 13/4/17
7.	Dr. K. Sivakumar	HOD/Chemistry Inter Disciplinary Member	 13/4/17
8.	Dr. K. Saravanan	University Nominee	
9.	Dr. S. Renganathan	Academic Council Nominee	
10.	Dr. Thomas Theodore	Academic Council Nominee	
11.	Mr. M. Chandrasekar	Industrial Expert	
12.	Mr. M. Sabarinathan	Alumni	 13/4/17

**Adhiyamaan College of Engineering (Autonomous), Hosur – 635 109**

**Department of Chemical Engineering**

**Board of Studies Meeting– Chemical Engineering**

**17<sup>th</sup> Board of Studies meeting of Department of Chemical Engineering held on 13.04.2017**



**DEPARTMENT OF CHEMICAL ENGINEERING**

**ADHIYAMAAN COLLEGE OF ENGINEERING,**

**MODIFICATIONS IN 17th BOARD OF STUDIES MEETING (13.04.2017)**

<b>Course Code</b>	<b>Name of the course</b>	<b>Remarks (New course Introduced/contents incorporated in the corresponding course)</b>
315EET05	Principles of Electrical and Electronics Engineering	New course Introduced
315CHE01	Analytical Chemistry	New course Introduced
315CHE02	Process Organic Synthesis	New course Introduced
315CHE03	Green Chemistry and Engineering	New course Introduced
315CHE04	Solid Mechanics for Technologists	New course Introduced
315CHE05	Materials Technology	New course Introduced
315CHE06	Composite Materials	New course Introduced
515CHE02	Fuel cell Technology	New course Introduced
515CHE03	Statistics and Linear Programming	New course Introduced
515CHO01	Energy Conservation in Process Industries	New course Introduced
515CHO02	Process Risk Analysis	New course Introduced
515CHO04	Pollution Control in Biotechnology Industries	New course Introduced
515BTO05	Biotechnology and its Applications	New course Introduced
515CHP09	Employability skills Laboratory	New course Introduced
711CHE09	Polymer Technology	New course Introduced
711CHE10	Petroleum Refinery Engineering	New course Introduced

**DEPARTMENT OF CHEMICAL ENGINEERING**

**ADHIYAMAAN COLLEGE OF ENGINEERING,**

**MODIFICATIONS IN 17th BOARD OF STUDIES MEETING (13.04.2017)**

Course Code	Course Name	Remarks
		Modifications/ New Course Introduced
415CHT04	Chemical Engineering Fluid Mechanics	<ul style="list-style-type: none"> <li>➤ Introduction, types, applications of valves and valve sizing in Unit - V</li> <li>➤ Introduction to types of manometers topic is included in unit-I</li> <li>➤ Pressure drop measurements topic is included in unit - I</li> </ul>
415CHT05	Mechanical Operations	<ul style="list-style-type: none"> <li>➤ Particle Agglomeration &amp; Aggregation topics in Unit - 1</li> <li>➤ Measurement of Ultra fine particles and Ultra fine grinders topics in Unit - II</li> <li>➤ Sedimentation topic in Unit - IV</li> </ul>
415CHE05	Heat Power Engineering	<ul style="list-style-type: none"> <li>➤ Unit I is removed, instead Thermal power equipments and its applications Unit is added</li> </ul>
415CHE06	Fuel & Combustion Technologies	<ul style="list-style-type: none"> <li>➤ Liquid fuel properties and Estimation topic is included in Unit - II</li> </ul>
515CHT03	Heat Transfer	<ul style="list-style-type: none"> <li>➤ Design of single effect evaporator topic is included in Unit - IV</li> </ul>
515CHT04	Mass Transfer-I	<ul style="list-style-type: none"> <li>➤ Vacuum drying topic is included in Unit - IV</li> </ul>
515CHE05	Oil and Natural Gas Engineering	<ul style="list-style-type: none"> <li>➤ Crude Heating topic is included in Unit - I</li> </ul>
515CHP07	Heat Transfer Laboratory	<ul style="list-style-type: none"> <li>➤ Heat transfer during boiling - experiment is additionally included</li> </ul>
515CHP09	Employment skills lab	<ul style="list-style-type: none"> <li>➤ New Course Introduced</li> </ul>

Feedback obtained about curriculum and syllabus from Stakeholders(Faculty, Students, Alumni, Employers) were also discussed and concluded



**BoS CHAIRMAN**

Chairman, Board of Studies  
Faculty of Chemical Engineering (UG& PG)  
Adhiyamaan College of Engineering (Autonomous)  
HOSUR-635 109.  
Krishnagiri -Dt, Tamil Nadu.