

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

**Board of Studies meeting in Faculty of Mechanical Engineering**

**Minutes of the 27<sup>th</sup> meeting of the Board of Studies in  
Faculty of Mechanical Engineering held on 22.07.2022 at 11.00 AM.**

**27.0. MEMBERS PRESENT**

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
3. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
4. Dr. K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
5. Dr. M. James Selva Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr. M. Sakthivel, Member, BOS / Faculty of Mechanical Engineering
7. Dr. V. Hariharan, University Nominee
8. Dr. P. Thirumal, Academic Council Nominee
9. Dr. B. N. Ravi Kumar, Academic Council Nominee
10. Dr. Channankaiah, Academic Council Nominee
11. Mr. S. Gowri Shankar, Industrial Representative
12. Dr. J. Jenix Rino, Alumni Representative
13. Dr. J. Arivudainambi, Interdisciplinary Expert

**27.1** To consider the minutes of the twenty sixth meeting of the Board of Studies in Mechanical Engineering held on 01.10.2021.

**RESOLVED** that the minutes of the twenty sixth meeting of the Board of Studies in Mechanical Engineering held on 01.10.2021 has been considered.

**27.2** To consider the Syllabi of 7<sup>th</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 7<sup>th</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2019 – 20 under Regulation 2018 as per *Annexure –I* be approved.

**27.3** To consider the Syllabi of 5<sup>th</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 5<sup>th</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2020 – 21 under Regulation 2018 (CBCS) as per *Annexure –II* be approved.

**27.4** To consider the Syllabi of 3<sup>rd</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2021 –22 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2021 –22 under Regulation 2018 (CBCS) as per *Annexure –III* be approved.

**27.5** To consider the proposal pertaining to the Regulation 2022.

**RESOLVED** that the proposal pertaining to the Regulation 2022 as per *Annexure –IV* be approved.

**27.6** To consider the Syllabi of 1<sup>st</sup> semester B.E. (Mechanical Engineering) to be offered for the batch of students to be admitted in 2022 –23 under Regulation 2022 (CBCS).

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester B.E. (Mechanical Engineering) to be adopted for the batch of students to be admitted in 2022 –23 under Regulation 2022 (CBCS) as per *Annexure –V* be approved.

**27.7** To consider the Syllabi of 3<sup>rd</sup> semester M.E - Engineering Design offered for the batch of students admitted in 2021–22 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester M.E - Engineering Design adopted for the batch of students admitted in 2021–22 under Regulation 2018 (CBCS) as per *Annexure –VI* be approved.

**27.8** To consider the Syllabi of 1<sup>st</sup> semester M.E - Engineering Design to be offered for the batch of students to be admitted in 2022 – 23 under Regulation 2022 (CBCS).

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester M.E - Engineering Design to be offered for the batch of students to be admitted in 2022 – 23 under Regulation 2022 (CBCS) as per *Annexure –VII* be approved.


**27.9** To consider the Syllabi of Ph.D course work subject.

**RESOLVED** that the Syllabi of Ph.D course work subject as per *Annexure – VIII* be approved.

**27.10** To consider the panel of Examiners for the purpose of Evaluation.

**RESOLVED** that the panel of Examiners for the purpose of Evaluation as per *Annexure – IX* be approved.


Date: 22.07.2022

  
Signature of the Chairman  
CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.

DEPARTMENT OF MECHANICAL ENGINEERING – 27 <sup>TH</sup> BOS RECOMMENDATIONS			
Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
2021 - 2022			
I	122EPP07	ENGINEERING PRACTICE LABORATORY	The following topics are included in the existing syllabus <ul style="list-style-type: none"> <li>• Introduction to House Wiring.</li> <li>• Staircase Wiring.</li> <li>• Fluorescent lamp Wiring.</li> <li>• Measurement of single phase energy meter.</li> <li>• Measurement of Power, Power factor by using two- wattmeter Method.</li> <li>• Study of Electrical iron box and fan with regulator.</li> <li>• Characteristics of SCR and Diode</li> <li>• Introduction to color coding of resistor.</li> </ul>
I	122CMT06	BASIC CIVIL AND MECHANICAL ENGINEERING	The following topics are included in the existing syllabus In Unit-3, <ul style="list-style-type: none"> <li>• Forging: Types of Forging. Differences between Hot working and Cold working processes.</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Window type room Air conditioner</li> <li>• Split type room Air conditioner</li> </ul>
M.E ENGINEERING DESIGN			
I	122EDT06	Research Methodology and IPR	New Course Introduced
I	122EDP09	Vibration Laboratory	New Course Introduced

Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.

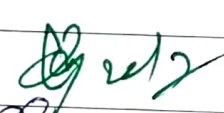

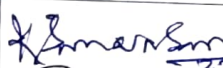
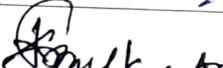
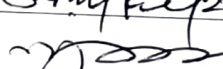
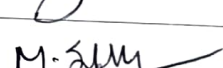
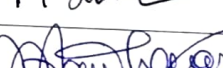
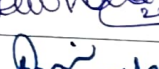





  
 BOS CHAIRMAN  
 CHAIRMAN  
 BOARD OF STUDIES  
 FACULTY OF MECHANICAL ENGINEERING  
 Adhiyamaan College of Engineering  
 (Autonomous)  
 Hosur - 635 109.



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

**27<sup>th</sup> BOS meeting in Faculty of Mechanical Engineering  
held on 22.07.2022 at 11.00 AM.**


Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Member of the Faculty : UG & PG Specialization: Machine Design	
2	Dr. S.V. Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	
3	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	
4	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	 22/07/22
5	Dr. M. James Selva Kumar	Member	Member of the Faculty: UG & PG Specialization: Thermal Engg.	 22/07/22
6	Dr. M. Sakthivel	Member	Member of the Faculty UG & PG Specialization: Production Engg.	 M. Sakthivel
7	Dr. V. Hariharan	Member	University Nominee	 22/7/22
8	Dr. P. Thirumal	Member	Academic Council Nominee	 22/7/22
9	Dr. B. N. Ravi Kumar	Member	Academic Council Nominee	
10	Dr. Channankaiah	Member	Academic Council Nominee	
11	Mr. S. Gowri Shankar	Member	Industrial Representative	
12	Dr. J. Jenix Rino	Member	Alumni Representative	
13	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	

  
Chairman



**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**27<sup>TH</sup> BOS MEETING HELD ON 22.07.2022**



  
**BOS CHAIRMAN**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.

# Adhiyamaan College of Engineering, Hosur – 635 130

(Autonomous)

## Board of Studies meeting in Faculty of Mechanical Engineering

Minutes of the 26<sup>th</sup> meeting of the Board of Studies in

Faculty of Mechanical Engineering held on 01.10.2021 at 11.00AM.

### 26.0. MEMBERS PRESENT

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr.S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
3. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
4. Dr.K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
5. Dr. M. James Selva Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr. M. Sakthivel, Member, BOS / Faculty of Mechanical Engineering
7. Dr. V. Hariharan, University Nominee
8. Dr. P. Thirumal, Academic Council Nominee
9. Dr. B. N. Ravi Kumar, Academic Council Nominee
10. Dr. Channankaiah, Academic Council Nominee
11. Mr. S. Gowri Shankar, Industrial Representative
12. Dr. J. Jenix Rino, Alumni Representative
13. Dr. J. Arivudainambi, Interdisciplinary Expert

**26.1** To consider the minutes of the twenty fifth meeting of the Board of Studies in Mechanical Engineering held on 24.03.2021.

**RESOLVED** that the minutes of the twenty fifth meeting of the Board of Studies in Mechanical Engineering held on 24.03.2021 has been considered.

**26.2** To consider the Syllabi of 8<sup>th</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 8<sup>th</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2018 – 19 under Regulation 2018 as per *Annexure –I* be approved.

**26.3** To consider the Syllabi of 6<sup>th</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 6<sup>th</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS) as per *Annexure-II* be approved.

**26.4** To consider the Syllabi of 4<sup>th</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2020 –21 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 4<sup>th</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2020 –21 under Regulation 2018 (CBCS) as per *Annexure-III* be approved.

**26.5** To consider the Syllabi of 2<sup>nd</sup> semester B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2021 –22 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 2<sup>nd</sup> semester B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2021 –22 under Regulation 2018 (CBCS) as per *Annexure -IV* be approved.

**26.6** To consider the Syllabi of 4<sup>th</sup> semester M.E - Engineering Design offered for the batch of students admitted in 2020–21 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 4<sup>th</sup> semester M.E - Engineering Design adopted for the batch of students admitted in 2020–21 under Regulation 2018 (CBCS) as per *Annexure -V* be approved.

**26.7** To consider the Syllabi of 2<sup>nd</sup> semester M.E - Engineering Design to be offered for the batch of students admitted in 2021 – 22 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 2<sup>nd</sup> semester M.E - Engineering Design to be offered for the batch of students admitted in 2021 – 22 under Regulation 2018 (CBCS) as per *Annexure -VI* be approved.

**26.8** To consider the panel of Examiners for the purpose of Evaluation.

**RESOLVED** that the panel of Examiners for the purpose of Evaluation as per *Annexure - VII* be approved.

Date:01.10.2021

  
Signature of the Chairman

**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
**Adhiyamaan College of Engineering**  
**(Autonomous)**  
**Hosur - 635 109.**




**DEPARTMENT OF MECHANICAL ENGINEERING – 26<sup>TH</sup> BOS RECOMMENDATIONS**

Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
<b>2021 - 2022</b>			
VIII	818MEE02	Theory of Elasticity	The following topics are included in the existing syllabus In Unit-1, <ul style="list-style-type: none"> <li>• Octahedral stress</li> <li>• Plane state of stress</li> <li>• Numerical problems</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Euler's column buckling load</li> <li>• Clamped-clamped and pin-ended</li> <li>• Numerical Problems</li> </ul>
VIII	818MEE05	Energy Conservation in Industries	New course introduced
VIII	818MEE06	Fracture Mechanics	The following topics are included in the existing syllabus In Unit-3, <ul style="list-style-type: none"> <li>• Importance of R-curve in fracture mechanics</li> <li>• Experimental determination of J-integral</li> <li>• COD and CTOD</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Specimen size requirements</li> <li>• Various test procedures</li> <li>• Effects of temperature</li> <li>• Loading rate and plate thickness on fracture toughness</li> <li>• Fracture testing in shear modes</li> <li>• Fatigue testing</li> <li>• NDT methods</li> </ul>
VIII	818MEE08	Optimization Techniques	The following topics are included in the existing syllabus In Unit-1, <ul style="list-style-type: none"> <li>• Solution by method of Lagrange multipliers</li> <li>• Multivariable Optimization with inequality constraints</li> <li>• Kuhn – Tucker conditions</li> </ul> In Unit-2, <ul style="list-style-type: none"> <li>• Big – M method</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Genetic Algorithm</li> <li>• Working Principle</li> <li>• Comparison between GA and traditional method</li> </ul>
VIII	818MEE09	Tribology	The following topics are included in the existing syllabus

			<p>In Unit-2,</p> <ul style="list-style-type: none"> <li>• Corrosive wear</li> <li>• Surface Fatigue wear</li> <li>• Wear of Ceramics and Polymers</li> <li>• Wear Measurements</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Materials for fluid film bearings</li> <li>• Materials for marginally lubricated and dry bearings</li> </ul>
VIII	818MEE10	Advanced I.C. Engines	New course introduced
VIII	818MEE11	Biomass System Energy	<p>The following topics are included in the existing syllabus</p> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>• Biogas plants</li> <li>• Types</li> <li>• Design constructional details and comparison</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Bio Diesel from edible and non-edible oils</li> <li>• Production of Bio diesel from Honge and Jatropha seeds</li> <li>• Use of bio diesel in I C engines</li> <li>• Blending of Bio diesel</li> <li>• Performance analysis of diesel engines using bio diesel</li> </ul>






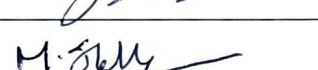

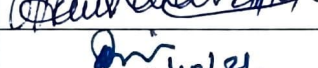


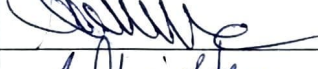
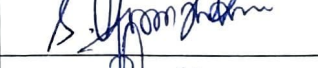

Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.




  
 BOS CHAIRMAN  
 CHAIRMAN  
 BOARD OF STUDIES  
 FACULTY OF MECHANICAL ENGINEERING  
 Adhiyamaan College of Engineering  
 (Autonomous)  
 Hosur - 635 109.

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

**26<sup>th</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **01.10.2021** at 11.00 AM.


Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Member of the Faculty : UG & PG Specialization: Machine Design	
2	Dr.S.V.Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	
3	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	
4	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	
5	Dr. M. James Selva Kumar	Member	Member of the Faculty: UG & PG Specialization: Thermal Engg.	
6	Dr. M. Sakthivel	Member	Member of the Faculty UG & PG Specialization: Production Engg.	
7	Dr. V. Hariharan	Member	University Nominee	
8	Dr. P. Thirumal	Member	Academic Council Nominee	
9	Dr. B. N. Ravi Kumar	Member	Academic Council Nominee	
10	Dr. Channankaiah	Member	Academic Council Nominee	
11	Mr. S. Gowri Shankar	Member	Industrial Representative	
12	Dr. J. Jenix Rino	Member	Alumni Representative	
13	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	

  
**Chairman**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
**Adhiyamaan College of Engineering**  
(Autonomous)  
Hosur - 635 109.



**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**26<sup>TH</sup> BOS MEETING HELD ON 01.10.2021**



  
**BOS CHAIRMAN**  
CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.

# Adhiyamaan College of Engineering, Hosur – 635 109

(Autonomous)

## Board of Studies meeting in Faculty of Mechanical Engineering

Minutes of the 25<sup>th</sup> meeting of the Board of Studies in

Faculty of Mechanical Engineering held on 24.03.2021 at 11.00 AM.

### 25.0. MEMBERS PRESENT

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
3. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
4. Dr. K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
5. Dr. M. James Selva Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr. M. Sakthivel, Member, BOS / Faculty of Mechanical Engineering
7. Dr. V. Hariharan, University Nominee
8. Dr. P. Thirumal, Academic Council Nominee
9. Dr. B. N. Ravi Kumar, Academic Council Nominee
10. Dr. Channankaiah, Academic Council Nominee
11. Mr. S. Gowri Shankar, Industrial Representative
12. Dr. J. Jenix Rino, Alumni Representative
13. Dr. J. Arivudainambi, Interdisciplinary Expert

25.1 To consider the minutes of the twenty fourth meeting of the Board of Studies in Mechanical Engineering held on 05.10.2020.

**RESOLVED** that the minutes of the twenty fourth meeting of the Board of Studies in Mechanical Engineering held on 05.10.2020 has been considered.

25.2 To consider the Syllabi of 7<sup>th</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 7<sup>th</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2018 – 19 under Regulation 2018 as per *Annexure –I* be approved.

25.3 To consider the Syllabi of 5<sup>th</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 5<sup>th</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2019 – 20 under Regulation 2018 (CBCS) as per *Annexure –II* be approved.

**25.4** To consider the Syllabi of 3<sup>rd</sup> semester B.E. (Mechanical Engineering) offered for the batch of students admitted in 2020 –21 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester B.E. (Mechanical Engineering) adopted for the batch of students admitted in 2020 –21 under Regulation 2018 (CBCS) as per *Annexure –III* be approved.

**25.5** To consider the Syllabi of 1<sup>st</sup> semester B.E. (Mechanical Engineering) to be offered for the batch of students to be admitted in 2021 –22 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester B.E. (Mechanical Engineering) to be adopted for the batch of students to be admitted in 2021 –22 under Regulation 2018 (CBCS) as per *Annexure – IV* be approved.

**25.6** To consider the Syllabi of 3<sup>rd</sup> semester M.E - Engineering Design offered for the batch of students admitted in 2020–21 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester M.E - Engineering Design adopted for the batch of students admitted in 2020–21 under Regulation 2018 (CBCS) as per *Annexure –V* be approved.


**25.7** To consider the Syllabi of 1<sup>st</sup> semester M.E - Engineering Design to be offered for the batch of students to be admitted in 2021 – 22 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester M.E - Engineering Design to be offered for the batch of students to be admitted in 2021 – 22 under Regulation 2018 (CBCS) as per *Annexure – VI* be approved.

**25.8** To consider the panel of Examiners for the purpose of Evaluation.

**RESOLVED** that the panel of Examiners for the purpose of Evaluation as per *Annexure – VII* be approved.

Date: 24.03.2021

  
Signature of the Chairman  
CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.



**DEPARTMENT OF MECHANICAL ENGINEERING – 25<sup>TH</sup> BOS RECOMMENDATIONS**


Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
<b>2020 - 2021</b>			
VII	718MET01	Automobile Engineering	<p>The following topics are included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>• Epicyclic and Hydromatic transmission</li> <li>• Universal joint</li> <li>• Propeller shaft</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Electronic Brake Distribution (EBD)</li> <li>• Battery</li> <li>• General electrical circuits</li> <li>• Dash board instrumentation</li> <li>• HVAC</li> <li>• Seat belts</li> <li>• Air bags</li> <li>• Layout of hybrid vehicle</li> <li>• working and types, electronic control system in electrical and hybrid vehicles</li> <li>• Basics of fuel cell vehicle</li> </ul>
VII	718MET02	Mechatronics and Robotics	<p>The following topics are included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>• Stages in designing Mechatronics Systems, Traditional and Mechatronic Design</li> <li>• Possible Design Solutions</li> <li>• Autonomous mobile robot</li> <li>• Wireless surveillance balloon</li> <li>• Engine Management system</li> <li>• Automatic car park barrier.</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Teach Pendant Programming, Lead through programming</li> <li>• Robot programming Languages - VAL Programming</li> <li>• Motion Commands, Sensor Commands</li> <li>• End effector commands</li> <li>• Simple programs</li> </ul>
VII	718MET04	Power Plant and Energy Engineering	<p>The following topics are included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>• Basics of Nuclear Engineering</li> <li>• Layout and subsystems of nuclear power plant</li> </ul>

			<ul style="list-style-type: none"> <li>• Working of Nuclear power plants</li> <li>• Boiling water reactor (BWR)</li> <li>• Pressurised water reactor (PWR)</li> <li>• Canada Deuterium Uranium (CANDU) reactor</li> <li>• Gas cooled reactor (GCR)</li> <li>• Fast breeder reactor (FBR)</li> <li>• Safety measures for nuclear power plant</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Cost of electric energy</li> <li>• Fixed and operating cost</li> <li>• Economics of load sharing</li> </ul>
VII	718MEP07	Mechatronics Laboratory	<p>The following experiment is included in the existing syllabus</p> <ul style="list-style-type: none"> <li>• Stepper motor interfacing with 8051 Micro controller for Half step resolution.</li> <li>• Modeling and Analysis of Basic Electrical, Hydraulic and Pneumatic Systems using LAB VIEW.</li> <li>• Computerized Data Logging System with control for process variables like Pressure Flow and Temperature.</li> </ul>
VII	718MEP08	CAE Laboratory	<p>The following experiment is included in the existing syllabus</p> <ul style="list-style-type: none"> <li>• Conductive Heat Transfer Analysis of a 2D Component.</li> <li>• Convective Heat Transfer Analysis of a 2D Component.</li> <li>• Simulation of Cam and Follower Mechanism using C / MAT Lab.</li> <li>• Simulation of Four Bar Mechanism using C / MAT Lab.</li> <li>• Simulation of Slider Crank Mechanism using C / MAT Lab.</li> </ul>
VII	718MEE05	Cryogenics Engineering	<p>The following topics are included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>• Temperature measurements</li> <li>• Pressure measurements</li> <li>• Flow measurements</li> <li>• Liquid level measurements</li> <li>• Fluid quality measurements.</li> </ul> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>• Various factors for selection of insulations</li> <li>• Various types such as expanded foams</li> <li>• Gas filled &amp; fibrous insulation</li> <li>• Vacuum insulation</li> <li>• Evacuated powder&amp; fibrous insulation</li> </ul>

			<ul style="list-style-type: none"> <li>• Opacified powder insulation</li> <li>• Multi-layer insulation</li> <li>• Comparison of performance of various insulations.</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Cryogenic Dewar Design</li> <li>• Cryogenic Transfer Lines</li> <li>• Insulations in Cryogenic Systems</li> <li>• Operating principle of different Types of Vacuum Pumps</li> <li>• Instruments to measure Flow</li> <li>• Level and Temperature operating principles.</li> </ul>
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Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.

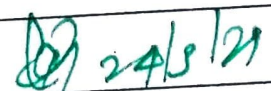
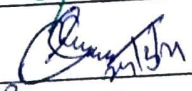
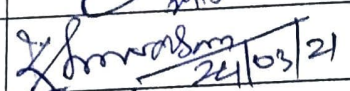
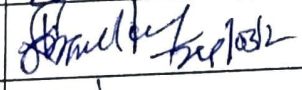

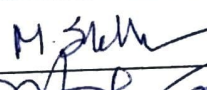

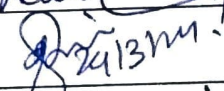
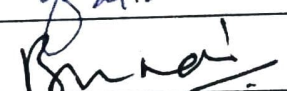

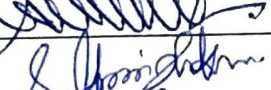
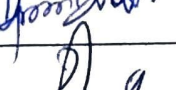
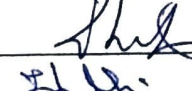


  
 BOS CHAIRMAN  
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 FACULTY OF MECHANICAL ENGINEERING  
 Adhiyamaan College of Engineering  
 (Autonomous)  
 Hosur - 635 109.



**Adhiyamaan College of Engineering, Hosur – 635109**  
(Autonomous)

**25<sup>th</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **24.03.2021** at 11.00 AM.


Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Member of the Faculty : UG & PG Specialization: Machine Design	 24/3/21
2	Dr.S.V.Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	
3	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	 24/03/21
4	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	
5	Dr. M. James Selva Kumar	Member	Member of the Faculty: UG & PG Specialization: Thermal Engg.	
6	Dr. M. Sakthivel	Member	Member of the Faculty UG & PG Specialization: Production Engg.	
7	Dr. V. Hariharan	Member	University Nominee	 24/3/21
8	Dr. P. Thirumal	Member	Academic Council Nominee	 24/3/21
9	Dr. B. N. Ravi Kumar	Member	Academic Council Nominee	
10	Dr. Channankaiah	Member	Academic Council Nominee	
11	Mr. S. Gowri Shankar	Member	Industrial Representative	
12	Dr. J. Jenix Rino	Member	Alumni Representative	
13	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	

 24/3/21  
Chairman

**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
Autonomous  
Hosur - 635109.

**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**25<sup>TH</sup> BOS MEETING HELD ON 24.03.2021**



  
**BOS CHAIRMAN**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
**Adhiyamaan College of Engineering**  
**(Autonomous)**  
**Hosur - 635 109.**



# Adhiyamaan College of Engineering, Hosur – 635 109

(Autonomous)

## Board of Studies meeting in Faculty of Mechanical Engineering

Minutes of the 24<sup>th</sup> meeting of the Board of Studies in

Faculty of Mechanical Engineering held on 05.10.2020 at 11.00 AM.

### 24.0. MEMBERS PRESENT

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
3. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
4. Dr. K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
5. Dr. M. James Selva Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr. M. Sakthivel, Member, BOS / Faculty of Mechanical Engineering
7. Dr. V. Hariharan, University Nominee
8. Dr. P. Thirumal, Academic Council Nominee
9. Dr. B. N. Ravi Kumar, Academic Council Nominee
10. Dr. Channankaiah, Academic Council Nominee
11. Mr. S. Gowri Shankar, Industrial Representative
12. Dr. J. Jenix Rino, Alumni Representative
13. Dr. J. Arivudainambi, Interdisciplinary Expert

**24.1** To consider the minutes of the twenty third meeting of the Board of Studies in Mechanical Engineering held on 06.11.2019.

**RESOLVED** that the minutes of the twenty third meeting of the Board of Studies in Mechanical Engineering held on 06.11.2019 has been considered.

**24.2** To consider the minutes of the Board of Studies in Mechanical Engineering held on 24.06.2020.

**RESOLVED** that the minutes of the Board of Studies in Mechanical Engineering held on 24.06.2020 has been considered.

**24.3.** To consider the Syllabi of 7<sup>th</sup> semester B.E. (Mechanical 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.E. (Mechanical Engineering) adopted for the batch of students admitted in 2017 – 18 under Regulation 2015 as per *Annexure –I* be approved.



**24.4** To consider the Syllabi of 5<sup>th</sup> semester B.E. (Mechanical 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.E. (Mechanical Engineering) adopted for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS) as per *Annexure –II* be approved.

**24.5** To consider the Syllabi of 3<sup>rd</sup> semester B.E. (Mechanical 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.E. (Mechanical Engineering) adopted for the batch of students admitted in 2019 –20 under Regulation 2018 (CBCS) as per *Annexure –III* be approved.

**24.6** To consider the Syllabi of 3<sup>rd</sup> semester M.E - Engineering Design offered for the batch of students admitted in 2019–20 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester M.E - Engineering Design adopted for the batch of students admitted in 2019–20 under Regulation 2018 (CBCS) as per *Annexure –IV* be approved.

**24.7** To consider the Syllabi of 1<sup>st</sup> semester M.E - Engineering Design to be offered for the batch of students to be admitted in 2020 – 21 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester M.E - Engineering Design to be offered for the batch of students to be admitted in 2020 – 21 under Regulation 2018 (CBCS) as per *Annexure – V* be approved.

**24.8.** To consider the Syllabi of 8<sup>th</sup> semester B.E. (Mechanical 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.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2017 – 18 under Regulation 2015 as per *Annexure –VI* be approved.

**24.9** To consider the Syllabi of 6<sup>th</sup> semester B.E. (Mechanical 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.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2018 – 19 under Regulation 2018 (CBCS) as per *Annexure –VII* be approved.

**24.10** To consider the Syllabi of 4<sup>th</sup> semester B.E. (Mechanical 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.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2019 –20 under Regulation 2018 (CBCS) as per *Annexure –VIII* be approved.

**24.11** To consider the Syllabi of 2<sup>nd</sup> semester B.E. (Mechanical Engineering) to be offered for the batch of students to be admitted in 2020 –21 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 2<sup>nd</sup> semester B.E. (Mechanical Engineering) to be adopted for the batch of students to be admitted in 2020 –21 under Regulation 2018 (CBCS) as per *Annexure –IX* be approved.

**24.12** To consider the Syllabi of 4<sup>th</sup> semester M.E - Engineering Design 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 M.E - Engineering Design to be adopted for the batch of students admitted in 2019–20 under Regulation 2018 (CBCS) as per *Annexure –X* be approved.


**24.13** To consider the Syllabi of 2<sup>nd</sup> semester M.E - Engineering Design to be offered for the batch of students to be admitted in 2020 – 21 under Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 2<sup>nd</sup> semester M.E - Engineering Design to be offered for the batch of students to be admitted in 2020 – 21 under Regulation 2018 (CBCS) as per *Annexure – XI* be approved.

**24.14** To consider the panel of Examiners for the purpose of Evaluation.

**RESOLVED** that the panel of Examiners for the purpose of Evaluation as per *Annexure – XII* be approved.

Date: 05.10.2020

  
Signature of the Chairman  
CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adhiyamaan College of Engineering  
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Hosur - 635 109.

DEPARTMENT OF MECHANICAL ENGINEERING – 24 <sup>TH</sup> BOS RECOMMENDATIONS			
Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
2020 - 2021			
VI	618MET01	Principles of Management and Business Concepts	The following topics are included in the existing syllabus In Unit-4, <ul style="list-style-type: none"> <li>• Economic Environment</li> <li>• International Environment</li> <li>• Business Ethics</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Marketing</li> <li>• Concept and Role of marketing</li> <li>• Marketing mix</li> <li>• Channels of distribution</li> <li>• Finance</li> <li>• Sources of Finance</li> <li>• Assessing business performance</li> </ul>
VI	618MET02	Gas Dynamics and Jet Propulsion	The following topics are included in the existing syllabus In Unit-4, <ul style="list-style-type: none"> <li>• Cycle analysis and performance of ram jet, turbojet, turbofan, turbo prop engines and pulse jet engines</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Theory of single stage and multistage rocket propulsion</li> <li>• Rocket performance calculations</li> </ul>
VI	618MET04	CAD/CAM/CIM	The following topic is included in the existing syllabus In Unit-2, <ul style="list-style-type: none"> <li>• Manual part programming of turning and milling operation</li> </ul> In Unit-3, <ul style="list-style-type: none"> <li>• Computer networking in CIM (LAN and MAP model)</li> <li>• OSI model seven layer</li> <li>• Network topologies: Types and advantages</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Flexible Manufacturing System: Scopes, Components, Types, Workstation, Benefits, Material handling and Storage system, Layouts, Computer control systems</li> </ul>
VI	618MEE01	Design of Experiments	New course introduced



VI	618MEE02	Professional Ethics and Human Values	<p>The following topics are included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>• Chernobyl Case Study</li> <li>• Bhopal gas tragedy</li> </ul> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>• Intellectual Property Rights (IPR)</li> <li>• Discrimination</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Computer Ethics</li> <li>• Role in Technological Development</li> <li>• Weapons Development</li> </ul>
VI	618MEE04	Refrigeration and Air Conditioning	<p>The following topics are included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>• Window Air- Conditioner</li> <li>• Packaged Air-Conditioner</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Transport Air Conditioning</li> <li>• Railway Air Conditioning</li> <li>• Aircraft Air Conditioning</li> </ul>
VI	618MEE10	Operation Research	New course introduced
VI	618MEP07	Computer Aided Machine Drawing	<p>The existing syllabus has been reframed with the following topics</p> <ul style="list-style-type: none"> <li>• Code of practice for Engineering Drawing</li> <li>• BIS specifications</li> <li>• Geometric constraint and symbols</li> <li>• Fundamentals of Limits, Tolerances, Fits,</li> <li>• surface roughness and its indication in drawings</li> <li>• Elementary weld symbol</li> <li>• Preparation of production drawings and reading of part and assembly drawings</li> </ul>
VI	618MEP08	CAM Laboratory	<p>The following experiment is included in the existing syllabus</p> <ul style="list-style-type: none"> <li>• Develop a part program for rectangular pocket and simulate</li> <li>• Develop a part program for circular pocket and simulate</li> </ul>
V	518MET01	Metrology and Instrumentation	<p>The following topic is included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>• Parkinson gear testing machine</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Temperature:           bimetallic           strip, thermocouples,       pyrometer,       electrical resistance thermistor</li> </ul>

V	518MET03	Dynamics of Machinery	<p>The following topic is included in the existing syllabus</p> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>• Force transmissibility</li> <li>• Amplitude transmissibility</li> <li>• Vibration isolation</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Quality of governors</li> <li>• Effect of friction</li> <li>• Gyroscopic effects in Automobiles.</li> </ul>
V	518MET05	Applied Hydraulics and Pneumatics	<p>The following topic is included in the existing syllabus</p> <p>In Unit-1,</p> <ul style="list-style-type: none"> <li>• Darcy–Weisbach equation</li> <li>• Losses in pipe</li> <li>• valves and fittings</li> </ul> <p>In Unit-2,</p> <ul style="list-style-type: none"> <li>• Cushioning Mechanism in cylinder</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Case studies to draw the circuits of hydraulic system for the Shaping and Punching operation.</li> </ul>
V	518MEP07	Metrology and Instrumentation Laboratory	<p>The following experiment is included in the existing syllabus</p> <ul style="list-style-type: none"> <li>• Measurement of Vibration / Shock</li> <li>• Measurement of Dimensional attributes like Cylindricity, Circularity, Flatness, Straightness by using Co-ordinate Measuring Machine.</li> </ul>
V	518MEP08	Heat Transfer Laboratory	<p>The following experiment is included in the existing syllabus</p> <ul style="list-style-type: none"> <li>• Effectiveness of parallel flow heat exchanger.</li> <li>• Effectiveness of counter flow heat exchanger.</li> <li>• Determination of heat transfer coefficient in shell and tube heat exchanger.</li> <li>• Determination of COP of a refrigeration system.</li> </ul>
V	518MEP09	Dynamics Laboratory	<p>The following experiment is included in the existing syllabus</p> <ul style="list-style-type: none"> <li>• Transverse vibration of Free-Free beam - with and without concentrated masses.</li> <li>• Forced Vibration of Cantilever beam - Mode shapes and natural frequencies.</li> <li>• Determination of transmissibility ratio using a vibrating table.</li> <li>• Determination of torsional natural frequency of single and Double Rotor systems- Undamped and Damped Natural frequencies.</li> </ul>


			<ul style="list-style-type: none"> <li>• Vibration Absorber - Tuned vibration absorber.</li> </ul>
V	518MEE01	Advanced Manufacturing Processes	<p>The following topic is included in the existing syllabus</p> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Laser Beam Machining and Drilling (LBM)</li> <li>• Plasma Arc Machining (PAM)</li> <li>• Electron Beam Machining (EBM) - Principles - Equipment -Types - Beam control techniques – Applications</li> <li>• Introduction to 3D printing</li> </ul>
V	518MEE02	Renewable Energy Sources	<p>The following topic is included in the existing syllabus</p> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Hydrogen generation, storage, transport and utilization</li> <li>• Applications: power generation, transport</li> <li>• Fuel cells - technologies, types</li> <li>• Economics and the power generation.</li> </ul>
V	518MEE03	Introduction to Nanotechnology	<p>The following topics are included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>• DC/RF Magnetron Sputtering</li> <li>• Molecular Beam Epitaxy (MBE)</li> </ul> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>• X-ray Photoelectron Spectroscopy (XPS)</li> <li>• Auger Electron Spectroscopy (AES)</li> <li>• Rutherford Backscattering Spectroscopy (RBS)</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Nanomedicine and Nanobiotechnology</li> <li>• Nanotoxicology challenges.</li> </ul>



V	518MEE04	Non Destructive Testing and Materials	<p>The following topics are included in the existing syllabus</p> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Basic principle, Effect of radiation of Film, Radiographic Imaging</li> <li>• Inspection Techniques</li> <li>• Single wall single image</li> <li>• Double wall Penetration &amp; Multiwall Penetration technique</li> <li>• Comparison and selection of various NDT techniques.</li> </ul>
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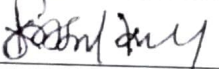
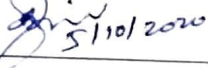


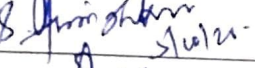

Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.



  
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**Adhiyamaan College of Engineering, Hosur – 635109**  
(Autonomous)

**24<sup>th</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **05.10.2020** at 11.00 AM.


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Chairman

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**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**24<sup>TH</sup> BOS MEETING HELD ON 05.10.2020**



  
**BOS CHAIRMAN**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.



# Adhiyamaan College of Engineering, Hosur – 635 109

(Autonomous)

## Board of Studies meeting in Faculty of Mechanical Engineering

Minutes of the 23<sup>rd</sup> meeting of the board of studies in

Faculty of Mechanical Engineering held on 06.11.2019 at 11.00 AM.

### 23.0. MEMBERS PRESENT

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
3. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
4. Dr. K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
5. Dr. M. James Selva Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr. M. Sakthivel, Member, BOS / Faculty of Mechanical Engineering
7. Dr. M. C. Krishnamurthy, Academic Council Nominee
8. Dr. T. Senthilvelan, Academic Council Nominee
9. Dr. Channankaiah, Academic Council Nominee
10. Mr. S. K. Vijay, Industrial Representative
11. Mr. P. Arjunraj, Alumni Representative
12. Dr. J. Arivudainambi, Interdisciplinary Expert

23.1 To consider the minutes of the twenty second meeting of the Board of Studies in Mechanical Engineering.

23.2. To consider the Syllabi of 8<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2016 – 17 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 8<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2016 – 17 of Regulation 2015 as per *Annexure –I* be approved.

23.3 To consider the Syllabi of 6<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2017 – 18 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 6<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2017 – 18 of Regulation 2015 (CBCS) as per *Annexure –II* be approved.

**23.4** To consider the Syllabi of 4<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2018 –19 of Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 4<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2018 –19 of Regulation 2018 (CBCS) as per *Annexure –III* be approved.

**23.5** To consider the Syllabi of 2<sup>nd</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2019 – 20 of Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 2<sup>nd</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2019 – 20 of Regulation 2018 (CBCS) as per *Annexure –IV* be approved.

**23.6** To consider the Syllabi of 4<sup>th</sup> semester of M.E - Engineering Design to be offered for the batch of students admitted in 2018–19 of Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 4<sup>th</sup> semester of M.E - Engineering Design to be adopted for the batch of students admitted in 2018–19 of Regulation 2018 (CBCS) as per *Annexure –V* be approved.

**23.7** To consider the Syllabi of 2<sup>nd</sup> semester of M.E - Engineering Design to be offered for the batch of students admitted in 2019 – 20 of Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 2<sup>nd</sup> semester of M.E - Engineering Design to be offered for the batch of students admitted in 2019 – 20 of Regulation 2018 (CBCS) as per *Annexure –VI* be approved.

**23.8** To consider the Syllabi of 4<sup>th</sup> semester of B.E. (Electronics and Instrumentation Engineering) related to B.E. Mechanical Engineering to be offered for the batch of students admitted in 2018-19 of Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 4<sup>th</sup> semester of B.E. (Electronics and Instrumentation Engineering) related to B.E. Mechanical Engineering to be offered for the batch of students admitted in 2018-19 of Regulation 2018 (CBCS) as per *Annexure –VII* be approved.

**23.9** To consider the Syllabi of Ph.D course work subject.

**RESOLVED** that the Syllabi of Ph.D course work subject as per *Annexure –VIII* be approved.

**23.10** To consider the list of Internal Examiner and External Examiner for the purpose of Evaluation.

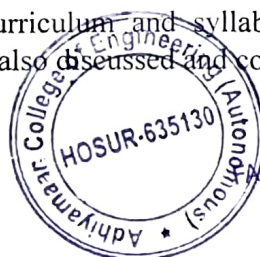
**RESOLVED** that the list of Internal Examiner and External Examiner for the purpose of Evaluation as per *Annexure – IX* be approved.

Date: 06.11.2019

  
Signature of the Chairman  
CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.

DEPARTMENT OF MECHANICAL ENGINEERING – 23 <sup>TH</sup> BOS RECOMMENDATIONS			
Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
2019 - 2020			
IV	418MET02	Kinematics of Machinery	The following topics are included in the existing syllabus In Unit-5, <ul style="list-style-type: none"> <li>• Numbers and Dimensional synthesis- Functional generation</li> <li>• path generation and motion generation- Graphical methods</li> <li>• Two and three position synthesis of slider crank and four bar mechanism using function generation method</li> <li>• Frudenstein Equation</li> </ul>
IV	418MET03	Thermal Engineering	The following topics are included in the existing syllabus In Unit-3, <ul style="list-style-type: none"> <li>• Chemical reaction, fuel properties</li> <li>• Flue gas analysis, heating values</li> <li>• HCF and LCF analysis</li> <li>• Minimum air flow requirement for combustion Fuel ratings: Octane and Cetane numbers</li> <li>• Knocking / detonation</li> <li>• Adiabatic flame temperature</li> </ul> In Unit-4, <ul style="list-style-type: none"> <li>• Concepts of supercharging and turbo charging</li> <li>• Emission measurement</li> <li>• Emission reduction techniques</li> </ul>
IV	418MET04	Strength of Materials	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"> <li>• Springs in series and parallel</li> </ul> In Unit-4, <ul style="list-style-type: none"> <li>• Area moment method for deflection of beams</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Thick cylinder</li> <li>• Lami's theorem for thick cylinder</li> <li>• Deformation in thick cylinder</li> </ul>

Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.

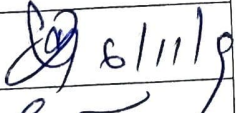
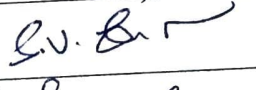
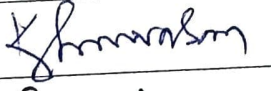

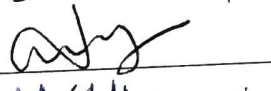





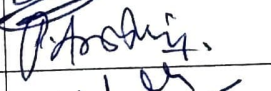



CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adhivamaan College of Engineering  
(Autonomous) BOS CHAIRMAN  
Hosur - 635 109.



**Adhiyamaan College of Engineering, Hosur – 635109**  
(Autonomous)

**23<sup>rd</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **06.11.2019** at 10.00 AM.

Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Member of the Faculty : UG & PG Specialization: Machine Design	
2	Dr.S.V.Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	
3	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	
4	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	
5	Dr. M. James Selva Kumar	Member	Member of the Faculty: UG & PG Specialization: Thermal Engg.	
6	Dr. M. Sakthivel	Member	Member of the Faculty UG & PG Specialization: Production Engg.	
7	Dr. M. C. Krishnamurthy	Member	Academic Council Nominee	
8	Dr. T. Senthilvelan	Member	Academic Council Nominee	
9	Dr. Channankaiah	Member	Academic Council Nominee	
10	Mr. S. K. Vijay	Member	Industrial Representative	
11	Mr. P. Arjunraj	Member	Alumni Representative	
12	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	

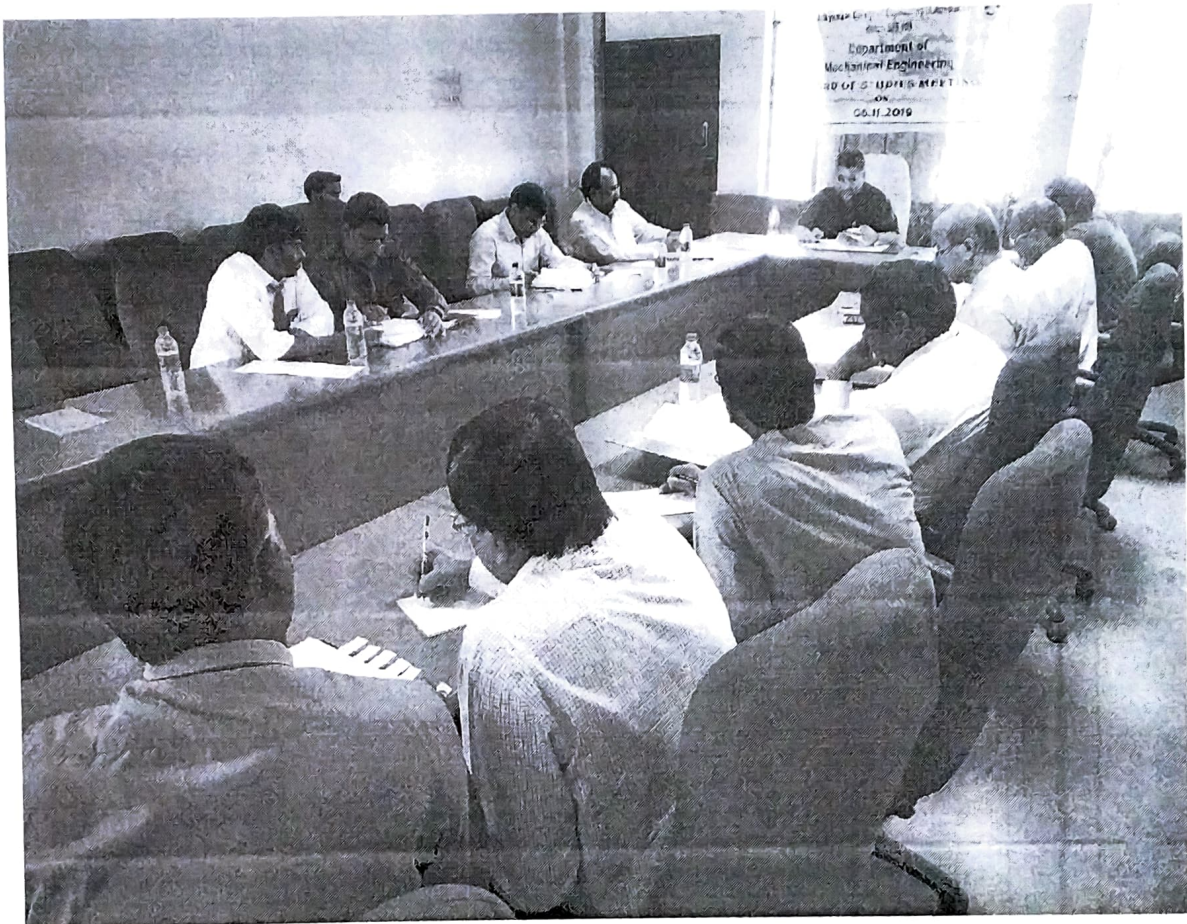
  
Chairman


**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.

**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**23<sup>RD</sup> BOS MEETING HELD ON 06.11.2019**



  
**BOS CHAIRMAN**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.



# Adhiyamaan College of Engineering, Hosur – 635 109

(Autonomous)

## Board of Studies meeting in Faculty of Mechanical Engineering

Minutes of the 22<sup>nd</sup> meeting of the board of studies in

Faculty of Mechanical Engineering held on 24.04.2019 at 11.00 AM.

### 22.0. MEMBERS PRESENT

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. Channankaiah, Member, BOS / Faculty of Mechanical Engineering
3. Dr. S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
4. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
5. Dr. K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr. M. James Selva Kumar, Member, BOS / Faculty of Mechanical Engineering
7. Dr. S. Balasivanandha Prabhu, University Nominee
8. Dr. M. C. Krishnamurthy, Academic Council Nominee
9. Dr. T. Senthivelan, Academic Council Nominee
10. Mr. S. K. Vijay, Industrial Representative
11. Mr. P. Arjunraj, Alumni Representative
12. Dr. J. Arivudainambi, Interdisciplinary Expert

22.1 To consider the minutes of the twenty first meeting of the Board of Studies in Mechanical Engineering.

22.2. To consider the Syllabi of 7<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2016 – 17 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 7<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2016 – 17 of Regulation 2015 as per *Annexure –I* be approved.

22.3 To consider the Syllabi of 5<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2017 – 18 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 5<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2017 – 18 of Regulation 2015 (CBCS) as per *Annexure –II* be approved.



**22.4** To consider the Syllabi of 3<sup>rd</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2018 –19 of Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2018 –19 of Regulation 2018 (CBCS) as per *Annexure –III* be approved.

**22.5** To consider the Syllabi of 1<sup>st</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students to be admitted in 2019 – 20 of Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students to be admitted in 2019 – 20 of Regulation 2018 (CBCS) as per *Annexure – IV* be approved.

**22.6** To consider the Syllabi of 3<sup>rd</sup> semester of M.E - Engineering Design to be offered for the batch of students admitted in 2018–19 of Regulation 2018 (CBCS).

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester of M.E - Engineering Design to be adopted for the batch of students admitted in 2018–19 of Regulation 2018 (CBCS) as per *Annexure –V* be approved.


**22.7** To consider the Syllabi of 1<sup>st</sup> semester of M.E - Engineering Design to be offered for the batch of students to be admitted in 2019 – 20 of Regulation 2018.

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester of M.E - Engineering Design to be offered for the batch of students to be admitted in 2019 – 20 of Regulation 2018 as per *Annexure –VI* be approved.

**22.8** To consider the Syllabi of Ph.D course work subject.

**RESOLVED** that the Syllabi of Ph.D course work subject as per *Annexure –VII* be approved.

Date: 24.04.2019

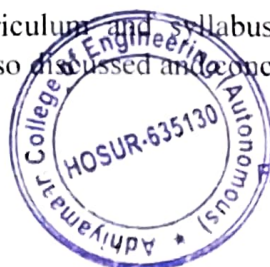
  
Signature of the Chairman  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
**Adhiyamaan College of Engineering**  
**(Autonomous)**  
**Hosur - 635 109.**

**DEPARTMENT OF MECHANICAL ENGINEERING – 22<sup>TH</sup> BOS RECOMMENDATIONS**

Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
<b>2018 - 2019</b>			
III	318MET04	Composite Materials	<p>The existing syllabus has been reframed with the following topics</p> <p>In Unit-2,</p> <ul style="list-style-type: none"> <li>• Pre-pregs process</li> <li>• Auto Clave method</li> <li>• Fibre reinforced plastics (FRP)</li> <li>• Glass Fibre Reinforced Plastics (GFRP)</li> <li>• Recycling of PMCs</li> </ul> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>• Carbon Carbon Composites</li> <li>• Applications of CMC in automotive industries</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Macro mechanical behaviour of laminates</li> <li>• Interfacing bonding mechanics</li> </ul>
III	318MET05	Manufacturing Technology I	<p>The existing syllabus has been reframed with the following topics</p> <p>In Unit-2,</p> <ul style="list-style-type: none"> <li>• Friction Stir Welding.</li> <li>• Weld defects</li> <li>• Brazing process</li> <li>• Soldering process</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Introduction to Blow moulding</li> <li>• Rotational moulding</li> <li>• Extrusion</li> <li>• Thermoforming</li> <li>• Bonding of Thermoplastics</li> <li>• Types of Adhesive bonding</li> </ul>
III	318MEP08	Manufacturing Technology I Laboratory	<p>The following experiment is included in the existing syllabus</p> <ul style="list-style-type: none"> <li>• Injection Moulding</li> <li>• Spot Welding.</li> </ul>
<b>M.E ENGINEERING DESIGN</b>			
III	<b>318EDE02</b>	<b>Engineering Materials and their applications</b>	<b>New Course Introduced</b>
III	318EDE03	Product Life Cycle Management	<p>The following experiment is included in the existing syllabus</p> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>• Intelligent Information Systems</li> <li>• Knowledge based product and process models</li> <li>• Applications of soft computing in product development process</li> </ul>

			<ul style="list-style-type: none"> <li>Advanced database design for integrated manufacturing</li> </ul>
III	318EDE05	Vibration Control and Condition Monitoring	<p>The following experiment is included in the existing syllabus</p> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>Vibration monitoring techniques</li> <li>Instrumentation systems</li> <li>Choice of monitoring parameter</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>Face peripheral dial indicator method</li> <li>Reverse indicator method</li> </ul>
III	318EDE07	Surface Engineering	<p>The following experiment is included in the existing syllabus</p> <p>In Unit-2,</p> <ul style="list-style-type: none"> <li>International standards in friction and wear measurements</li> </ul> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>Nano-engineered coatings</li> <li>Other coatings</li> <li>Corrosion resistant coatings</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>Bio Tribology Nano Tribology</li> </ul>
III	318EDE09	Mechanical Behaviour of Engineering Materials	<p>The following experiment is included in the existing syllabus</p> <p>In Unit-3,</p> <ul style="list-style-type: none"> <li>Factor and fracture toughness</li> <li>Elementary discussions on linear elastic and Elastic</li> </ul> <p>In Unit-4,</p> <ul style="list-style-type: none"> <li>Application of fracture mechanics to fatigue crack propagation</li> <li>Effect of temperature on fatigue</li> </ul> <p>In Unit-5,</p> <ul style="list-style-type: none"> <li>Practical application of creep data</li> <li>Accelerated creep testing</li> <li>Time – temperature parameters for conversion of creep data</li> </ul>
III	318EDE13	Research Methodology and IPR	New Course Introduced

Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.

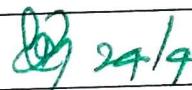

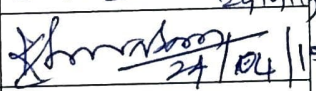










CHAIRMAN  
 BOARD OF STUDIES  
 FACULTY OF MECHANICAL ENGINEERING  
 Adhiyamaan College of Engineering  
 (Autonomous)  
 Hosur - 635 109.



**Adhiyamaan College of Engineering, Hosur – 635109**  
(Autonomous)


**22<sup>nd</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **24.04.2019** at 11.00 AM.

Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Member of the Faculty : UG & PG Specialization: Machine Design	 24/4
2	Dr. Channankaiah	Member	Member of the Faculty : UG & PG Specialization: Foundry Engg.	
3	Dr.S.V.Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	S.V. Su 24/4/19
4	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	 24/04/19
5	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	 24/04/19
6	Dr. M. James Selva Kumar	Member	Member of the Faculty: UG & PG Specialization: Machine Design	
7	Dr. S. Balasivanandha Prabhu	Member	University Nominee	 24/4
8	Dr. M. C. Krishnamurthy	Member	Academic Council Nominee	
9	Dr. T. Senthivelan	Member	Academic Council Nominee	T.S.
10	Mr. S. K. Vijay	Member	Industrial Representative	
11	Mr. P. Arjunraj	Member	Alumni Representative	
12	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	

  
 Chairman  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
**Adhiyamaan College of Engineering**  
 (Autonomous)  
 Hosur - 635 109.

**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**22<sup>ND</sup> BOS MEETING HELD ON 24.04.2019**



  
**BOS CHAIRMAN**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
**Adhiyamaan College of Engineering**  
**(Autonomous)**  
**Hosur - 635 109.**



# Adhiyamaan College of Engineering, Hosur – 635 109

(Autonomous)

## Board of Studies meeting in Faculty of Mechanical Engineering

Minutes of the 21<sup>st</sup> meeting of the board of studies in

Faculty of Mechanical Engineering held on 01.11.2018 at 10.30 AM.

### 21.0. MEMBERS PRESENT

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. Channankaiah, Member, BOS / Faculty of Mechanical Engineering
3. Dr. S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
4. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
5. Dr. K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr. M. James Selva Kumar, Member, BOS / Faculty of Mechanical Engineering
7. Dr. S. Balasivanandha Prabhu, University Nominee
8. Dr. M. C. Krishnamurthy, Academic Council Nominee
9. Dr. T. Senthilvelan, Academic Council Nominee
10. Mr. S. K. Vijay, Industrial Representative
11. Mr. P. Arjunraj, Alumni Representative
12. Dr. J. Arivudainambi, Interdisciplinary Expert

**21.1** To consider the minutes of the twentieth meeting of the Board of Studies in Mechanical Engineering.

**21.2.** To consider the Syllabi of 8<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2015 – 16 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 8<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2015 – 16 of Regulation 2015 as per *Annexure –I* be approved.

**21.3** To consider the Syllabi of 6<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2016 – 17 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 6<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2016 – 17 of Regulation 2015 (CBCS) as per *Annexure –II* be approved.



**21.4** To consider the Syllabi of 4<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2017 –18 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 4<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2017 –18 of Regulation 2015 (CBCS) as per *Annexure –III* be approved.

**21.5** To consider the Syllabi of 4<sup>th</sup> semester of M.E - Engineering Design to be offered for the batch of students admitted in 2017–18 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 4<sup>th</sup> semester of M.E - Engineering Design to be adopted for the batch of students admitted in 2017–18 of Regulation 2015 (CBCS) as per *Annexure –IV* be approved.

**21.6** To consider the resolution pertaining to Regulation 2018 (CBCS) for UG and PG. (*Annexure –V*)

- a) IA (Internal Assessment) & EA (External Assessment) Marks Ratio
- b) Continuous Assessment (IA) Marks Allocation
- c) End Assessment Question Paper Pattern
- d) One credit courses over and above the total credits to be earned

**RESOLVED** that the resolution pertaining to Regulation 2018 (CBCS) for UG and PG as per *Annexure –V* be approved.

**21.7** To consider the Curriculum and Syllabi of 2<sup>nd</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2018 – 19 of Regulation 2018 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 2<sup>nd</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2018 – 19 of Regulation 2018 (CBCS) as per *Annexure –VI* be approved.

**21.8** To consider the Curriculum and Syllabi of 2<sup>nd</sup> semester of M.E - Engineering Design to be offered for the batch of students admitted in 2018 – 19 of Regulation 2018.

**RESOLVED** that the Curriculum and Syllabi of 2<sup>nd</sup> semester of M.E - Engineering Design to be offered for the batch of students admitted in 2018 – 19 of Regulation 2018 as per *Annexure –VII* be approved.

**21.9** To consider the list of Internal Examiner and External Examiner for the purpose of Evaluation.

**RESOLVED** that the list of Internal Examiner and External Examiner for the purpose of Evaluation as per *Annexure – VIII* be approved.

Date: 01.11.2018

  
Signature of the Chairman

**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
**Adhiyamaan College of Engineering**  
**(Autonomous)**  
**Hosur - 635 109.**


**DEPARTMENT OF MECHANICAL ENGINEERING – 21<sup>TH</sup> BOS RECOMMENDATIONS**

Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
<b>2018 - 2019</b>			
VIII	815MET01	Automobile Engineering	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Electronic Stability Program(ESP)</li> <li>• Traction Control System (TCS)</li> <li>• Global Positioning System (GPS)</li> <li>• Electric - Hybrid vehicle.</li> </ul>
VIII	815MEE01	Supply Chain Management	The existing syllabus has been reframed with the following topics In Unit-2, <ul style="list-style-type: none"> <li>• Integrated Logistics Concepts</li> <li>• Activities - Measuring logistics cost and performance</li> <li>• Warehouse Management</li> </ul>
VIII	815MEE03	Fracture Mechanics	The existing syllabus has been reframed with the following topics In Unit-4, <ul style="list-style-type: none"> <li>• S-N Curve</li> <li>• Crack growth integration</li> <li>• Fatigue crack growth laws</li> </ul>
VIII	815MEE04	Industrial Safety and Hazards Management	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"> <li>• Hazards indices- Dow and Mond indices</li> <li>• Hazard operability (HAZOP)</li> <li>• Hazard analysis (HAZAN)</li> </ul>
VIII	815MEE06	Nuclear Engineering	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Radiation hazards and their prevention</li> <li>• Weapons proliferation</li> </ul>
VIII	815MEE11	Biomass Energy System	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"> <li>• Liquefaction through pyrolysis &amp; Methanol synthesis</li> </ul>
VIII	815MEE12	Cogeneration and Waste Heat Recovery Systems	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Procedure for optimized system selection and design</li> <li>• Load curves</li> <li>• Sensitivity analysis</li> <li>• Regulatory and financial frame work for cogeneration and waste heat recovery</li> </ul>

			systems
<b>M.E ENGINEERING DESIGN</b>			
II	218EDT01	Tribology in Design	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"> <li>• Introduction to Elasto - hydrodynamic lubricated bearings</li> <li>• Introduction to 'EHL' constant</li> <li>• Grubin type solution</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Principles of Aerospace eccentric bearing test mechanism</li> <li>• Engine Tribology</li> </ul>
II	218EDT03	Integrated Mechanical Design	New Course Introduced
II	218EDT04	Mechanisms Design and Simulation	New Course Introduced
II	218EDE02	Integrated Manufacturing Systems	The existing syllabus has been reframed with the following topics In Unit-4, <ul style="list-style-type: none"> <li>• Contact inspection methods non-contact inspection method</li> <li>• Computer Aided Testing</li> <li>• Integration of CAQC with CAD/CAM</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Rapid prototyping</li> <li>• Artificial Intelligence and Expert system in CIM.</li> </ul>
II	218EDE08	Plates and Shell	New Course Introduced

Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.


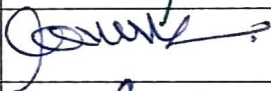








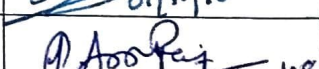
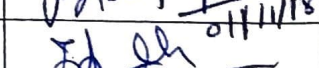


  
 BOS CHAIRMAN  
 CHAIRMAN  
 BOARD OF STUDIES  
 FACULTY OF MECHANICAL ENGINEERING  
 Adhiyamaan College of Engineering  
 (Autonomous)  
 Hosur - 635 109.



**Adhiyamaan College of Engineering, Hosur – 635109**  
(Autonomous)

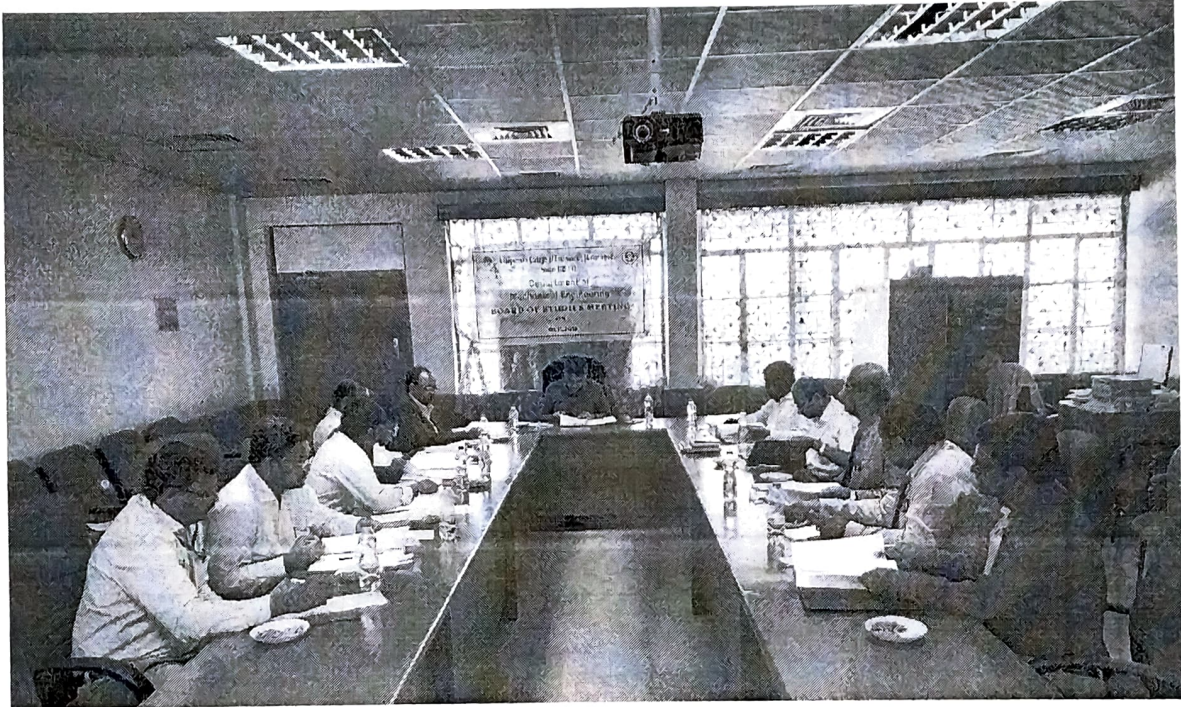
**21<sup>st</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **01.11.2018** at 10.30 AM.


Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Member of the Faculty : UG & PG Specialization: Machine Design	
2	Dr. Channankaiah	Member	Member of the Faculty : UG & PG Specialization: Foundry Engg.	
3	Dr.S.V.Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	
4	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	
5	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	
6	Dr. M. James Selva Kumar	Member	Member of the Faculty: UG & PG Specialization: Machine Design	
7	Dr. S. Balasivanandha Prabhu	Member	University Nominee	
8	Dr. M. C. Krishnamurthy	Member	Academic Council Nominee	
9	Dr. T. Senthivelan	Member	Academic Council Nominee	
10	Mr. S. K. Vijay	Member	Industrial Representative	 01/11/18
11	Mr. P. Arjunraj	Member	Alumni Representative	 01/11/18
12	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	 01/11/18

  
Chairman

**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.

**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**21<sup>ST</sup> BOS MEETING HELD ON 01.11.2018**



  
**BOS CHAIRMAN**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.



# **Adhiyamaan College of Engineering, Hosur – 635 109**

(Autonomous)

## **Board of Studies meeting in Faculty of Mechanical Engineering**

**Minutes of the 20<sup>th</sup> meeting of the board of studies in**

**Faculty of Mechanical Engineering held on 23.04.2018 at 10.30AM.**

### **20.0. MEMBERS PRESENT**

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. Channankaiah, Member, BOS / Faculty of Mechanical Engineering
3. Dr.S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
4. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
5. Dr.K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr.P.R. Thyala, Academic Council Nominee
7. Dr. V. Hariharan, Academic Council Nominee
8. Dr. G. Nagarajan, University Nominee
9. Dr. Shyam S Rao, Industrial Representative

**20.1** To consider the minutes of the nineteenth meeting of the Board of Studies in Mechanical Engineering.

**20.2.** To consider the Curriculum and Syllabi of 7<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2015 – 16 of Regulation 2015 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 7<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2015 – 16 of Regulation 2015 (CBCS) as per **Annexure –I** be approved.

**20.3** To consider the Syllabi of 5<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2016 – 17 of Regulation 2015.

**RESOLVED** that the Syllabi of 5<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2016 – 17 of Regulation 2015 as per **Annexure–II** be approved.



**20.4** To consider the Syllabi of 3<sup>rd</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2017 –18 of Regulation 2015.

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2017 –18 of Regulation 2015 *as per Annexure-III* be approved.

**20.5** To consider the Curriculum and Syllabi of 1<sup>st</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students to be admitted in 2018 – 19 of Regulation 2018 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 1<sup>st</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students to be admitted in 2018 – 19 of Regulation 2018 (CBCS) as per *Annexure –IV* be approved.

**20.6** To consider the Curriculum and Syllabi of 3<sup>rd</sup> semester of M.E - Engineering Design to be offered for the batch of students admitted in 2017–18 of Regulation 2015 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 3<sup>rd</sup> semester of M.E - Engineering Design to be adopted for the batch of students admitted in 2017–18 of Regulation 2015 (CBCS) as per *Annexure –V* be approved.

**20.7** To consider the Curriculum and Syllabi of 1<sup>st</sup> semester of M.E - Engineering Design to be offered for the batch of students to be admitted in 2018 – 19 of Regulation 2018 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 1<sup>st</sup> semester of M.E - Engineering Design to be offered for the batch of students to be admitted in 2018 – 19 of Regulation 2018 (CBCS) as per *Annexure –VI* be approved.

Date: 23.04.2018



Signature of the Chairman

CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.

**DEPARTMENT OF MECHANICAL ENGINEERING – 20<sup>TH</sup> BOS RECOMMENDATIONS**


Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
<b>2017 - 2018</b>			
VII	715MET03	Power Plant and Energy Engineering	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"> <li>• Waste disposal and safety</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Types of tariffs</li> <li>• Economics of load sharing</li> </ul>
VII	715MET04	Composite Materials	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• In-situ composites</li> <li>• Nano composites</li> </ul>
VII	715MEP09	CAE Laboratory	The following experiment is included in the existing syllabus <ul style="list-style-type: none"> <li>• Simulation of Four Bar Mechanism using C / MAT Lab.</li> <li>• Simulation of Slider Crank Mechanism using C / MAT Lab.</li> </ul>
VII	715MEE03	Six Sigma and Lean Manufacturing	The existing syllabus has been reframed with the following topics In Unit-2, <ul style="list-style-type: none"> <li>• Finished Goods Stock</li> <li>• Cycle Stock</li> <li>• Buffer Stock</li> <li>• Safety Stock</li> </ul>
VII	715MEE07	Artificial Intelligence and Expert Systems	The existing syllabus has been reframed with the following topics In Unit-4, <ul style="list-style-type: none"> <li>• Machine Learning</li> <li>• Adaptive Learning</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• Typical Expert Systems – MYCIN, DART, XOON</li> <li>• Expert System Shells.</li> </ul>
VII	715MEE08	Design of Thermal Equipment	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Heat balance</li> <li>• Heat transfer by simultaneous diffusion and convection</li> <li>• Design of cooling towers</li> <li>• Calculation of cooling tower performance</li> </ul>
Value Added Courses are recommended.			

### M.E ENGINEERING DESIGN

I	118EDT01	Concepts of Engineering Design	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"><li>• Design for brittle fracture</li><li>• Design for fatigue failure</li><li>• Design for corrosion resistance</li><li>• Designing with plastics</li></ul> In Unit-5, <ul style="list-style-type: none"><li>• Life Cycle Assessment</li><li>• Material recycling and remanufacture</li></ul>
I	118EDT05	Optimization Techniques in Design	New Course Introduced
I	118EDE04	Composite Materials and Mechanics	New Course Introduced

Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.

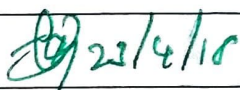



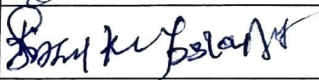

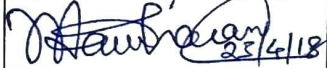
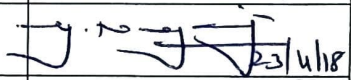


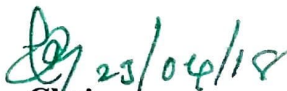
  
BOS CHAIRMAN  
CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.



**Adhiyamaan College of Engineering, Hosur – 635109**  
(Autonomous)

**20<sup>th</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **23. 04.2018** at 10.30 AM.

Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Member of the Faculty : UG & PG Specialization: Machine Design	 23/4/18
2	Dr. Channankaiah	Member	Member of the Faculty : UG & PG Specialization: Foundry Engg.	
3	Dr.S.V.Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	
4	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	 23/4/18
5	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	
6	Dr. Halesh Koti	Member	Member of the Faculty: UG & PG Specialization: Machine Design	← ABSENT →
7	Dr.P.R. Thyla	Member	Academic Council Nominee	
8	Dr. V. Hariharan	Member	Academic Council Nominee	 23/4/18
9	Dr. G. Nagarajan	Member	University Nominee	 23/4/18
10	Dr. Shyam S Rao	Member	Industrial Representative	← ABSENT →
11	Mr. U.Vinoth	Member	Alumni Representative	← ABSENT →
12	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	← ABSENT →


 23/04/18  
**Chairman**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
 Adhiyamaan College of Engineering  
 (Autonomous)  
 Hosur - 635 109.

**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**20<sup>TH</sup> BOS MEETING HELD ON 23.04.2018**



  
**BOS CHAIRMAN**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
(Autonomous)  
Hosur - 635 109.

# Adhiyamaan College of Engineering, Hosur – 635 109

(Autonomous)

## Board of Studies meeting in Faculty of Mechanical Engineering

Minutes of the 19<sup>th</sup> meeting of the board of studies in

Faculty of Mechanical Engineering held on 26.10.2017 at 10.30 AM.

### 19.0. MEMBERS PRESENT

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. Channankaiah, Member, BOS / Faculty of Mechanical Engineering
3. Dr.S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
4. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
5. Dr. K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
6. Dr. Halesh Koti, Member, BOS / Faculty of Mechanical Engineering
7. Dr. V. Hariharan, Academic Council Nominee
8. Dr. G. Nagarajan, University Nominee
9. Dr. Shyam S Rao, Industrial Representative
10. Dr. J. Ariyudainambi, Interdisciplinary Expert

**19.1** To consider the minutes of the eighteenth meeting of the Board of Studies in Mechanical Engineering.

**19.2.** To consider the Curriculum and Syllabi of 8<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2014 – 15 of Regulation 2011.

**RESOLVED** that the Curriculum and Syllabi of 8<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2014 – 15 of Regulation 2011 as per **Annexure –I** be approved.

**19.3** To consider the Curriculum and Syllabi of 6<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2015 – 16 of Regulation 2015 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 6<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2015 – 16 of Regulation 2015 (CBCS) as per **Annexure –II** be approved.



**19.4** To consider the Syllabi of 4<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2016 –17 of Regulation 2015.

**RESOLVED** that the Syllabi of 4<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2016 –17 of Regulation 2015 as per *Annexure -III* be approved.

**19.5** To consider the Syllabi of 2<sup>nd</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2017 – 18 of Regulation 2015.

**RESOLVED** that the Syllabi of 2<sup>nd</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2017 – 18 of Regulation 2015 as per *Annexure -IV* be approved.

**19.6** To consider the Curriculum and Syllabi of 4<sup>th</sup> semester of M.E - Engineering Design and M.E - Computer Aided Design to be offered for the batch of students admitted in 2016–17 of Regulation 2015 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 4<sup>th</sup> semester of M.E - Engineering Design and M.E - Computer Aided Design to be adopted for the batch of students admitted in 2016–17 of Regulation 2015 (CBCS) as per *Annexure -V* be approved.

**19.7** To consider the Syllabi of 2<sup>nd</sup> semester of M.E - Engineering Design and M.E - Computer Aided Design to be offered for the batch of students admitted in 2017 – 18 of Regulation 2015.

**RESOLVED** that the Syllabi of 2<sup>nd</sup> semester of M.E - Engineering Design and M.E - Computer Aided Design to be offered for the batch of students admitted in 2017 – 18 of Regulation 2015 as per *Annexure -VI* be approved.

**19.8** To consider the Syllabi of 6<sup>th</sup> semester of B.Arch. Building Services III (Department of Architecture) related to B.E. Mechanical Engineering to be offered for the batch of students admitted in 2015-16 of Regulation 2015 (CBCS).

**RESOLVED** that the Syllabi of 6<sup>th</sup> semester of B.Arch. Building Services III (Department of Architecture) related to B.E. Mechanical Engineering to be offered for the batch of students admitted in 2015-16 of Regulation 2015 (CBCS) as per *Annexure -VII* be approved.


Date: 26.10.2017

  
Signature of the Chairman  
CHAIRMAN  
BOARD OF STUDIES  
FACULTY OF MECHANICAL ENGINEERING  
Adikavi Nannayya College of Engineering  
(Autonomous)  
Hyderabad - 505 109

DEPARTMENT OF MECHANICAL ENGINEERING – 19 <sup>TH</sup> BOS RECOMMENDATIONS			
Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
2017 - 2018			
VI	615MET04	CAD/CAM/CIM	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Flexible Manufacturing System: Scopes, Components, Types, Workstation, Benefits, Material handling and Storage system, Layouts, Computer control systems</li> </ul>
VI	615MEE01	Industrial Relation and Organizational Development	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"> <li>• Diseases</li> <li>• Psychological problems</li> <li>• Counseling</li> <li>• Statutory Provisions</li> </ul> In Unit-5, <ul style="list-style-type: none"> <li>• HR functions and Strategic Change Management</li> <li>• Implications for practicing Managers</li> </ul>
VI	615MEE06	Metal Forming Techniques	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"> <li>• Tube drawing and sinking processes</li> <li>• Mannesmann process of seamless pipe manufacturing</li> <li>• Tube bending</li> </ul>
VI	615MEE09	Additive Manufacturing	The existing syllabus has been reframed with the following topics In Unit-4, <ul style="list-style-type: none"> <li>• 3-Dimensional Printing</li> <li>• Genesis Xs Printer</li> <li>• JP 5 System</li> <li>• Objects Quadra System</li> </ul>
VI	615MEE12	Non Destructive Testing and Materials	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Double wall Penetration</li> <li>• Multiwall Penetration technique</li> </ul>

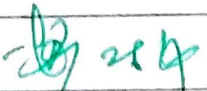
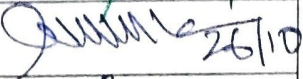


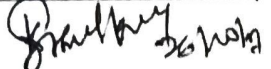

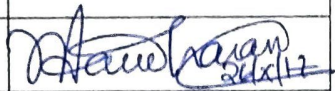
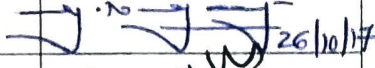
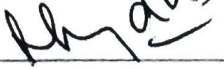
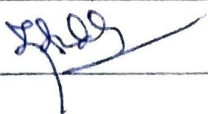
Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.




  
 CHAIRMAN  
 BOARD OF STUDIES  
 FACULTY OF MECHANICAL ENGINEERING  
 Adhiyamaan College of Engineering  
 (Autonomous)  
 Hosur - 635 109.

**Adhiyamaan College of Engineering, Hosur – 635109**  
(Autonomous)

**19<sup>th</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **26.10.2017** at 10.30 AM.


Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Member of the Faculty : UG & PG Specialization: Machine Design	
2	Dr. Channankaiah	Member	Member of the Faculty : UG & PG Specialization: Foundry Engg.	
3	Dr.S.V.Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	
4	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	
5	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	
6	Dr. Halesh Koti	Member	Member of the Faculty: UG & PG Specialization: Machine Design	
7	Dr.P.R. Thyla	Member	Academic Council Nominee	← ABSENT →
8	Dr. V. Hariharan	Member	Academic Council Nominee	
9	Dr. G. Nagarajan	Member	University Nominee	
10	Dr. Shyam S Rao	Member	Industrial Representative	
11	Mr. U.Vinoth	Member	Alumni Representative	← ABSENT →
12	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	

  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
 Adhiyamaan College of Engineering  
 (Autonomous)  
 Hosur - 635 109.



**ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**19<sup>TH</sup> BOS MEETING HELD ON 26.10.2017**



  
**BOS CHAIRMAN**  
**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
Adhiyamaan College of Engineering  
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# Adhiyamaan College of Engineering, Hosur – 635 109

(Autonomous)

## Board of Studies meeting in Faculty of Mechanical Engineering

Minutes of the 18<sup>th</sup> meeting of the board of studies in

Faculty of Mechanical Engineering held on 08.04.2017 at 10.00 AM.

### 18.0. MEMBERS PRESENT

1. Dr. G. Ranganath, Chairman, BOS / Faculty of Mechanical Engineering
2. Dr. Channankaiah, Member, BOS / Faculty of Mechanical Engineering
3. Dr. D.Shivalingappa, Member, BOS / Faculty of Mechanical Engineering
4. Dr.S.V.Suresh Babu, Member, BOS / Faculty of Mechanical Engineering
5. Dr. K. Srinivasan, Member, BOS / Faculty of Mechanical Engineering
6. Dr. K.Senthil Kumar, Member, BOS / Faculty of Mechanical Engineering
7. Prof. Halesh Koti, Member, BOS / Faculty of Mechanical Engineering
8. Dr.P.R. Thyla, Academic Council Nominee
9. Dr. V. Hariharan, Academic Council Nominee
10. Dr. G. Nagarajan, University Nominee
11. Dr. Shyam S Rao, Industrial Representative
12. Mr. U.Vinoth, Alumni Representative
13. Dr. J. Arivudainambi, Interdisciplinary Expert

**18.1** To consider the minutes of the seventeenth meeting of the Board of Studies in Mechanical Engineering.

**18.2.** To consider the Curriculum and Syllabi of 7<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2014 – 15 of Regulation 2011.

**RESOLVED** that the Curriculum and Syllabi of 7<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2014 – 15 of Regulation 2011 as per *Annexure –I* be approved.

**18.3** To consider the Curriculum and Syllabi of 5<sup>th</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2015 – 16 of Regulation 2015 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 5<sup>th</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2015 – 16 of Regulation 2015 (CBCS) as per *Annexure –II* be approved.

**18.4** To consider the Syllabi of 3<sup>rd</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students admitted in 2016 –17 of Regulation 2015.

**RESOLVED** that the Syllabi of 3<sup>rd</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students admitted in 2016 –17 of Regulation 2015 as per *Annexure –III* be approved.

**18.5** To consider the Syllabi of 1<sup>st</sup> semester of B.E. (Mechanical Engineering) to be offered for the batch of students to be admitted in 2017 – 18 of Regulation 2015.

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester of B.E. (Mechanical Engineering) to be adopted for the batch of students to be admitted in 2017 – 18 of Regulation 2015 as per *Annexure –IV* be approved.

**18.6** To consider the Curriculum and Syllabi of 3<sup>rd</sup> semester of M.E - Engineering Design and M.E - Computer Aided Design to be offered for the batch of students admitted in 2016–17 of Regulation 2015 (CBCS).

**RESOLVED** that the Curriculum and Syllabi of 3<sup>rd</sup> semester of M.E - Engineering Design and M.E - Computer Aided Design to be adopted for the batch of students admitted in 2016–17 of Regulation 2015 (CBCS) as per *Annexure –V* be approved.

**18.7** To consider the Syllabi of 1<sup>st</sup> semester of M.E - Engineering Design and M.E - Computer Aided Design to be offered for the batch of students to be admitted in 2017 – 18 of Regulation 2015.

**RESOLVED** that the Syllabi of 1<sup>st</sup> semester of M.E - Engineering Design and M.E - Computer Aided Design to be offered for the batch of students to be admitted in 2017 – 18 of Regulation 2015 as per *Annexure –VI* be approved.

Date: 08.04.2017

  
Signature of the Chairman

**CHAIRMAN**  
**BOARD OF STUDIES**  
**FACULTY OF MECHANICAL ENGINEERING**  
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DEPARTMENT OF MECHANICAL ENGINEERING – 18 <sup>TH</sup> BOS RECOMMENDATIONS			
Sem	Course Code	Name of the Course	Remarks (New course introduced/contents incorporated in the corresponding course)
2016 - 2017			
V	515MET01	Metrology and Instrumentation	The existing syllabus has been reframed with the following topics In Unit-4, <ul style="list-style-type: none"> <li>• Coordinate Measuring Machine (CMM): need, construction, types, applications</li> <li>• Computer Aided Inspection</li> </ul>
V	515MET02	Heat and Mass Transfer	The existing syllabus has been reframed with the following topics In Unit-4, <ul style="list-style-type: none"> <li>• Radiation shield</li> <li>• Heat exchange between two grey surfaces</li> <li>• Electrical analogy</li> <li>• Introduction to Gas Radiation</li> </ul>
V	515MET03	Kinematics of Machinery	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Numbers and Dimensional synthesis</li> <li>• Functional generation, path generation and motion generation</li> <li>• Graphical methods-Two position synthesis of slider crank and four bar mechanism</li> </ul>
V	515MET05	Applied Hydraulics and Pneumatics	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Fluid power circuits failures and troubleshooting.</li> </ul>
V	515MEP09	Computer Aided Machine Drawing	The existing syllabus has been reframed with the following topics <ul style="list-style-type: none"> <li>• Introduction of 3D Modeling software – part modeling, assembly.</li> <li>• Sectioning methods– full section, half section, partial or local section, revolved or superimposed section, removed section, aligned section, successive sections, thin sections.</li> <li>• Bill of Materials- preparation of bill of materials and tolerance data sheet</li> </ul>
V	515MEE01	Design Concepts in Engineering	The existing syllabus has been reframed with the following topics In Unit-3, <ul style="list-style-type: none"> <li>• Selection with computed aided databases – Design for brittle fracture</li> <li>• Design for fatigue failure</li> <li>• Design for corrosion resistance</li> <li>• Designing with plastics</li> </ul>

V	515MEE02	Production and Operations Management	The existing syllabus has been reframed with the following topics In Unit-4, <ul style="list-style-type: none"> <li>• ABC analysis</li> <li>• JIT</li> <li>• Work in process in lean manufacturing</li> <li>• Basics of SCM and ERP</li> </ul>
V	515MEE03	Introduction to Nanotechnology	The existing syllabus has been reframed with the following topics In Unit-4, <ul style="list-style-type: none"> <li>• Nanocomposites</li> <li>• Nanopolymers</li> <li>• Nanoglasses</li> <li>• Nano ceramics</li> <li>• Biological nanomaterials</li> </ul>
V	515MEE05	Internal Combustion Engines	The existing syllabus has been reframed with the following topics In Unit-5, <ul style="list-style-type: none"> <li>• Formation of NO<sub>x</sub></li> <li>• HC/CO mechanism</li> </ul>

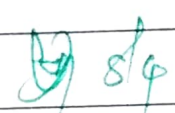
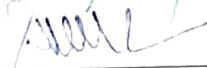
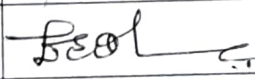

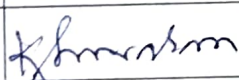
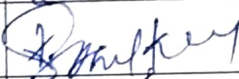

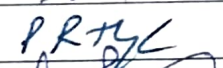
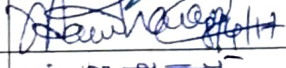




Feedback obtained about curriculum and syllabus from stakeholders (Faculty, Students, Alumni and Employer) were also discussed and concluded.



  
BOS CHAIRMAN  
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(Autonomous)

**18<sup>th</sup> BOS meeting in Faculty of Mechanical Engineering**  
held on **08.04.2017** at 10.00 AM.

Sl. No.	Name	Designation	Category	Signature
1	Dr. G. Ranganath	Chairman	Specialization: Machine Design	
2	Dr. Channankaiah	Member	Member of the Faculty : UG & PG Specialization: Foundry Engg.	
3	Dr.D.Shivalingappa	Member	Member of the Faculty: UG & PG Specialization: Machine Design	
4	Dr.S.V.Suresh Babu	Member	Member of the Faculty UG & PG Specialization: Industrial Engg.	
5	Dr. K. Srinivasan	Member	Member of the Faculty: UG & PG Specialization: CAD	
6	Dr. K. Senthil Kumar	Member	Member of the Faculty UG & PG Specialization: Thermal Engg.	
7	Prof. Halesh Koti	Member	Member of the Faculty: UG & PG Specialization: Machine Design	
8	Dr.P.R. Thyla	Member	Academic Council Nominee	
9	Dr. V. Hariharan	Member	Academic Council Nominee	
10	Dr. G. Nagarajan	Member	University Nominee	
11	Dr. Shyam S Rao	Member	Industrial Representative	
12	Mr. U.Vinoth	Member	Alumni Representative	
13	Dr. J. Arivudainambi	Member	Interdisciplinary Expert	


  
Chairman

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**18<sup>TH</sup> BOS MEETING HELD ON 08.04.2017**



  
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