



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

Maisammguda, Dhulapally (Post Via Kompally) Secunderabad – 500 100

Department of Mechanical Engineering

12.08.2020

Board of Studies Meeting on 20-08-2020 at 2:00 PM

The 13th Board of Studies Meeting of B.Tech (Mechanical Engineering) Programme is scheduled on 20-08-2020 at 2:00 PM in online mode through Zoom Platform. The Agenda of the meeting is as follows:

AGENDA

- Action Taken Report (ATR) on previous BoS Meeting held in Dec. 2019.
- Discussion and review of B. Tech.(ME) MR20 regulations, First Year Course schema and syllabus.
- Approval for minor changes in Syllabus of Engineering Graphics Course for all branches of B.Tech.
- Approval for addition of Python Programming Lab in the II Semester of B.Tech.- ME.
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Suggestion and review on Innovative Teaching Practices in view of Online Classes.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.


Chairman BoS




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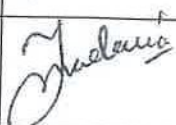
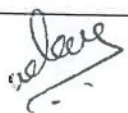


MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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Department of Mechanical Engineering

The 13th Board of Studies meeting for B.Tech.-Mechanical Engineering Programme is held online on Zoom Platform.

The following members have attended to review on matters such as Schema, Syllabus of MR20 regulations (4 Year B.Tech(ME) Programme and other points as per agenda.

Sl.No	Name of the Member	Designation & Official Address	Category	Signature
1.	Dr. A. Raveendra	Principal, MREC	Special Invitee	
2.	Dr. Yogesh Madaria	Assoc. Professor & Head-ME, MREC	Chairman-BOS	
3.	Dr. K. Vijaya Kumar Reddy	Professor, MED, JNTUHCEH	JNTUH Nominee	Online
4.	Dr. N. K. Singh	GM, BHEL-R&D, Hyderabad	Expert Member (Industry)	Online.
5.	Dr. T. Ramachandran	Professor	Faculty Member	Online.
6.	Dr. S. Udaya Bhaskar	Assoc. Professor	Faculty Member	
7.	Dr. N. Rishikanth	Asst. Professor	Faculty Member	
8.	Mrs. M. V. Varalakshmi	Assoc. Professor	Faculty Member	




Principal
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Department of Mechanical Engineering

Minutes of meeting B.Tech(Mech. Engg) - BoS

August 20th, 2020

The 13th Board of studies meeting for the B.Tech(ME) was conducted on 20-08-2020 at 2:00PM online on Zoom Platform.

The following BoS Members have attended the Meeting:

1. Dr. A. Raveendra	Principal, MREC (A)	Special Invitee
2. Dr. Yogesh Madaria	Assoc.Prof. & Head-ME	Chairman-BOS
3. Dr.K.Vijaya Kumar Reddy	Professor,MED, JNTUHCEH	JNTUH Nominee
4. Dr.N.K. Singh	GM,BHEL-R&D,Hyderabad	Expert Member (Industry)
5. Dr.T.Ramachandran	Professor	Faculty Member
6. Dr. S. Udaya Bhaskar	Assoc.Professor	Faculty Member
7. Dr. N. Rishikanth	Asst. Professor	Faculty Member
8. Mrs.M.V.Varalakshmi	Assoc.Professor	Faculty Member

The following was the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS Meeting held in 28-11-2019.
- Discussion and review of B. Tech.(ME) MR20 regulations, First Year Course schema and syllabus.
- Approval for minor changes in Syllabus of Engineering Graphics Course for all branches of B.Tech.
- Approval for addition of Python Programming Lab in the II Semester of B.Tech. - ME.
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Suggestion and review on Innovative Teaching Practices in view of Online Classes.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.




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The Structure and Syllabus for B.Tech MR17 & MR18 batch have been approved with the following suggestions

S.NO	Subject code	Subject name	Change / Modifications suggested
1	80H04	Engineering Economics and Accountancy	Module III: Monopolistic Method. Pricing Strategies in Times and stiff Price Competition. New Pricing Models. Module IV: Internal Rate of Return Method(IRR).
2	70330	Finite Element Method	MODULE III: Finite element modeling of Axi-symmetric solids subjected to Axi-symmetric loading with triangular elements. MODULE IV: Analysis of a uniform shaft subjected to torsion. MODULE V: Finite element – formulation to 3 D problems in stress analysis, convergence requirements, Mesh generation. techniques such as semi automatic and fully Automatic use of softwares such as ANSYS, NISA, NASTRAN, etc.

At the outset, Dr.Yogesh Madaria, Assoc.Prof.,Mech. Engg. Dept and Chairman of the B.Tech(ME)-Board of Studies, welcomed the members to the Board of Studies to the meeting and appraised the purpose of the meeting. He also briefed about the previous BoS meeting, resolutions and placed on record, the proposed course structure of MR20 regulations. Later Board of studies Members has in detailed discussed, reviewed each item of the proposed agenda and finally the following items have been resolved unanimously by all the members of BoS.

The following specific information about the changes in the curriculum (as compared to MR18 Regulations) were shared with the BoS members:

1. *Engineering Graphics Lab* is removed from the curriculum. The related content has been added in the *Engineering Graphics* course syllabus.
2. *Machine Drawing Lab* is removed from the curriculum. The related content has been added to *Production Drawing and Practices Lab*.
3. *Thermodynamics Lab* is removed from the curriculum.
4. Addition of *Basic Python Programming Lab* in Semester-I with 1 Tutorial and 2 Practice hours, having 2 Credits.
5. Shifting of *Engineering Chemistry*, *Engineering Mechanics*, *Engineering Chemistry Lab* and *Engineering Mechanics Lab* from Semester-I to Semester-II.
6. Shifting of *Engineering Physics*, *Programming for Problem Solving*, *Engineering Physics Lab* and *Programming for Problem Solving Lab* from Semester-II to Semester-I.
7. Addition of *Fundamentals of Data Structures Lab* in Semester-III with 1 Tutorial and 2 Practice hours, having 2 Credits.
8. Addition of *Object-Oriented Programming through Java Lab* in Semester-IV with 1 Tutorial and 2 Practice hours, having 2 Credits.



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9. *NPTEL-I* and *NPTEL-II* are introduced as Audit Courses in Semester-III and Semester-IV respectively.
10. *Quantitative Aptitude* have been introduced as Mandatory Courses in Semester-V.
11. The following new courses were introduced in MR17 syllabus

S.No	Professional Elective/ Open Elective	Subject Code	Subject Name
1	Professional Elective	70353	Additive Manufacturing
2	Professional Elective	70354	Electric And Hybrid Vehicles
3	Professional Elective	70355	Mechanical Behaviour Of Material
4	Professional Elective	70356	Material Characterization
5	Professional Elective	70359	Waste To Energy
6	Open Elective	70364	Product Design
7	Open Elective	70365	Heating Ventilation And Air Conditioning
8	Open Elective	70366	Robotics And Automation
9	Open Elective	70367	Fuel Cell And Hydrogen Storage
10	Open Elective	70368	Thermal Measurements And Process Controls

13. The following new courses were introduced in MR18 syllabus

S. No	Professional Elective /Open Elective	Subject Code	Subject Name
1	Professional Elective	80354	Mechanics Of Composite Materials
2	Professional Elective	80355	Fuel Cell And Hydrogen Storage
3	Professional Elective	80356	Solar Energy
4	Professional Elective	80357	Advanced Materials For Thermal Systems
5	Professional Elective	80358	Advanced Optimization Techniques
6	Open Elective	80364	Additive Manufacturing
7	Open Elective	80365	Electric And Hybrid Vehicles
8	Open Elective	80366	Mechanical Behaviour Of Material



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9	Open Elective	80367	Equipment Design For Thermal Systems
10	Open Elective	80368	New & Renewable Energy Sources

The following suggestions were given by the BoS Members:

1. JNTUH Nominee, Dr. K. Vijaya Kumar Reddy suggested to modify the name of the course A0345, from *New and Renewable Energy Sources* to *Renewable Energy Sources*.
2. JNTUH Nominee, Dr. K. Vijaya Kumar Reddy suggested to include a course on *Machine Learning* in the curriculum.









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Department of Mechanical Engineering

B.Tech(Mech.Engg)-Action Taken Report for BoS

Aug 20th, 2020

The action taken report for the 13th Board of studies meeting for the B.Tech(ME)-BOS conducted on 20-08-2020 at 2:00 PM in Online Mode, is follows:

Resolution 1: The BOS members unanimously approved the introduction of MR20 Schema for the students admitted from the Academic Year 2020-21 onwards

Action Taken: Implemented from A.Y. 2020-21

Resolution 2: The BOS members had given their approval for introducing Basic Python Programming Lab course in First Year ME curriculum.

Action Taken: Implemented from A.Y. 2020-21

Resolution 2: After formulation of scheme of Instructions, the BoS has reviewed and revised the syllabus for B.Tech (Mech) course as per the guide lines of the AICTE and JNTUH, Hyderabad.

Action Taken: The revised syllabus is implemented as MRIS regulation B.Tech. (ME) course.

Resolution 4: The BOS Members unanimously approve to use the open source software's for the respective laboratories.

Action Taken: The suggested softwares are installed.

Resolution 5: The BOS members have agreed to suggest a panel for paper setters and valuers /examiners for both theory and practical of all the subjects of B.Tech.(ME) Course.

Action Taken: The suggestion for setters and valuers /examiners are implemented for the B.Tech (ME) Course.

Resolution 6: If any item need to be modified /added/ deleted, the same may be circulated by E-mail to all members and after taking electronic/E-mail approval the modification may be made operational.

Action Taken: Implemented from the academic year 2020-21.


BOS Chairman



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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Department of Mechanical Engineering

12.08.2020

Board of Studies Meeting on 20-08-2020 at 2:30 PM

The 13th Board of Studies Meeting of M.Tech (Machine Design) Programme is scheduled on 20-08-2020 at 2:30 PM in online mode through Zoom Platform. The Agenda of the meeting is as follows:

AGENDA

- Action Taken Report (ATR) on previous BoS Meeting held in Dec. 2019.
- Discussion and review of M.Tech(MD) MR20 regulations Course schema and syllabus.
- Suggestion and review panel of names for Paper setters, and examiners for both theory and practical examinations that will be submit for Academic council for approval.
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.

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Chairman BoS



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Department of Mechanical Engineering

Minutes of meeting M.Tech(Machine Design) –BoS

August 20th, 2020

The 13th Board of studies meeting for the M.Tech(MD) was conducted on 20-08-2020 at 2:30 PM online on Zoom Platform.

The following BoS Members have attended the Meeting:

1. Dr. A. Raveendra	Principal, MREC (A)	Special Invitee
2. Dr. Yogesh Madaria	Assoc. Prof. & Head-ME	Chairman-BOS
3. Dr. K. Vijaya Kumar Reddy	Professor, MED, JNTUHCEH	JNTUH Nominee
4. Dr. N. K. Singh	GM, BHEL-R&D, Hyderabad	Expert Member (Industry)
5. Dr. Halesh Koti	Professor	Faculty Member
6. Dr. T. Zaheer Ahamed	Professor	Faculty Member
7. Mr. K. Srinivas Rao	Assoc. Professor	Faculty Member

The following was the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS Meeting held on 28-11-2019
- Discussion and review of M. Tech.(MD) MR20 regulations course schema and syllabus.
- Suggestion and review panel of names for Paper setters, and examiners for both theory and practical examinations that will be submit for Academic council for approval.
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.



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At the outset, Dr.Yogesh Madaria, Assoc.Prof.,Mech. Engg. Dept and Chairman of the M.Tech(MD)- Board of Studies, welcomed the members to the Board of Studies to the meeting and appraised the purpose of the meeting. He also briefed about the previous BoS meeting, resolutions and placed on record, the proposed course structure of MR20 regulations. Later Board of studies Members has in detailed discussed, reviewed each item of the proposed agenda and finally the following items have been resolved unanimously by all the members of BoS.

The Structure and Syllabus for M.Tech MR20 batch have been approved with the following suggestions

S.NO	Subject code	Subject name	Change / Modifications suggested
1	A3203	Dynamics And Vibrations Lab	Study of epi-cyclic gear trains using graph theory.
2	A3202	Mechanical Vibrations	MODULE II: Semi-definite system - Self excitation and stability, Transfer function approach, Frequency transfer function. MODULE IV: Equation of motion-initial and boundary conditions- orthogonality of normal functions.

The following new courses were introduced in MR20 syllabus

S.No	Professional Elective/ Open Elective	Subject Code	Subject Name
1	Professional Elective	A3229	Advanced Mechanics of Machinery
2	Professional Elective	A3330	Mechanical Behaviour of Materials
3	Professional Elective	A3331	Advanced Machine Design
4	Professional Elective	A3332	Control Systems
5	Professional Elective	A3333	Machine Tool Design
6	Professional Elective	A3334	Industrial Robotics
7	Professional Elective	A3335	Gear Engineering

The Board of Studies Members unanimously approved the proposal of continuing the same curriculum (as per MR-18) for the batch to be admitted in A.Y. 2020-21.



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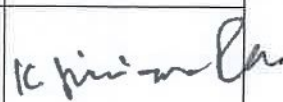
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Department of Mechanical Engineering

The 13th Board of Studies meeting for M.Tech. (MD) (PG Programme) is held online on Zoom Platform.

The following members have attended to review on matters such as Schema, Syllabus of MR20 regulations (2 Year M.Tech (MD) Programme and other points as per agenda.

Sl.No	Name of the Member	Designation & Official Address	Status BoS	Signature
1.	Dr. A. Raveendra	Principal, MREC	Special Invitee	
2.	Dr. Yogesh Madaria	Assoc. Professor & Head-ME, MREC	Chairman-BOS	
3.	Dr. K. Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	Online
4.	Dr. N. K. Singh	General Manager (Mechanical) BHEL Corporate R & D Division, Hyderabad	Expert Member from Industry	Online
5.	Dr. Halesh Koti	Professor, ME, MREC	Faculty Member	
6.	Dr. T. Zaheer Ahmed	Professor, ME, MREC	Faculty Member	
7.	Mr. K. Srinivas Rao	Assoc. Professor, ME, MREC	Faculty Member	




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Department of Mechanical Engineering

M.Tech(Machine Design)-Action Taken Report for BoS

Aug 20th, 2020

The action taken report for the 13th Board of studies meeting for the M.Tech(MD)-BOS conducted on 20-08-2020 at 2:30 PM in Online Mode, is follows:

Resolution 1: The BOS members unanimously approved the introduction of MR20 Schema for the students admitted from the Academic Year 2020-21 onwards

Action Taken: Implemented from A.Y.2020-21

Resolution 2: The BOS members had given their approval for new introducing courses like Advanced Mechanics of Machinery, Mechanical Behaviour of Materials, Advanced Machine Design, Control Systems, Machine Tool Design, Industrial Robotics, Gear Engineering in M.Tech(MD) curriculum.

Action Taken: Implemented from A.Y.2020-21

Resolution 2: After formulation of scheme of Instructions, the BoS has reviewed and revised the syllabus for M.Tech (MD) course as per the guide lines of the AICTE and JNTUH, Hyderabad.

Action Taken: The revised syllabus is implemented as MR20 regulation M.Tech. (MD) course.

Resolution 4: The BOS Members unanimously approve to use the open source software's for the respective laboratories.

Action Taken: The suggested softwares are installed.

Resolution 5: The BOS members have agreed to suggest a panel for paper setters and valuers/examiners for both theory and practical of all the subjects of M.Tech.(MD) Course.

Action Taken: The suggestion for setters and valuers /examiners are implemented for the M.Tech (MD) Course.

Resolution 6: If any item need to be modified /added/ deleted, the same may be circulated by E-mail to all members and after taking electronic/E-mail approval the modification may be made operational.

Action Taken: Implemented from the academic year 2020-21.



Principal
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BOS Chairman
BOS Chairman



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Department of Mechanical Engineering

12.08.2020

Board of Studies Meeting on 20-08-2020 at 3:00 PM

The 13th Board of Studies Meeting of M.Tech (Thermal Engineering) Programme is scheduled on 20-08-2020 at 3:00 PM in online mode through Zoom Platform. The Agenda of the meeting is as follows:

AGENDA

- Action Taken Report (ATR) on previous BoS Meeting held in Dec. 2019.
- Discussion and review of M.Tech.(TE) MR20 regulations Course schema and syllabus.
- Suggestion and review panel of names for Paper setters, and examiners for both theory and practical examinations that will be submit for Academic council for approval.
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.



Reena
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Chairman
Chairman BoS

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Department of Mechanical Engineering

Minutes of meeting M.Tech(ThermalEngg) - BoS

August 20th, 2020

The 13th Board of studies meeting for the M.Tech (TE) was conducted on 20-08-2020 at 2:30 PM online on Zoom Platform.

The following BoS Members have attended the Meeting:

1. Dr. A. Raveendra	Principal, MREC (A)	Special Invitee
2. Dr. Yogesh Madaria	Assoc. Prof. & Head-ME	Chairman-BOS
3. Dr.K.Vijaya Kumar Reddy	Professor,MED, JNTUHCEH	JNTUH Nominee
4. Dr. M. Srinivas	Professor, MED, BITS Hyderabad	Expert Member
5. Dr. N. K. Singh	GM,BHEL-R&D,Hyderabad	Expert Member (Industry)
6. Dr. Shaik Hussain	Assoc. Professor	Faculty Member
7. Dr. A. Paul Praveen	Assoc. Professor	Faculty Member

The following was the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS (12th) Meeting held on 28-11-2019
- Discussion and review of M. Tech.(TE) MR20 regulations course schema and syllabus.
- Suggestion and review panel of names for Paper setters, and examiners for both theory and practical examinations that will be submit for Academic council for approval.
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.

At the outset, Dr.YogeshMadaria, Assoc.Prof., Mech. Engg. Dept and Chairman of the M.Tech (TE)-Board of Studies, welcomed the members to the Board of Studies to the meeting and appraised the purpose of the meeting. He also briefed about the previous BoS meeting, resolutions and placed on record, the proposed course structure of MR20 regulations. Later Board of studies Members has in detailed discussed, reviewed each item of the proposed agenda and finally the following items have been resolved unanimously by all the members of BoS.

The Board of Studies Members unanimously approved the proposal of continuing the same curriculum (as per MR-18) for the batch to be admitted in A.Y. 2020-21.



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The Structure and Syllabus for M.Tech MR20 batch have been approved with the following suggestions

S.NO	Subject code	Subject name	Change / Modifications suggested
1	A3101	Advanced Thermodynamics And Combustion	Module I: Air & Fuel Mixtures Module V: Particulate Matter (PM), Pollution Control Systems (EGR, SCR & DPF)
2	A3102	Process Heat And Mass Transfer	Module V: heat balance sheet
3	A3115	Computer Simulation In Si And Ci Engines	Module III: Importance of Modelling, Spray equation models, Thick and Thin spray model.
4	A3117	Thermal And Nuclear Power Plant Engineering	Module-I: stoichiometric air fuel ratio Module-II: optimum pressure ratio for maximum thermal efficiency, work ratio, air rate, effect of operating variables on the thermal efficiency and work ratio

The following new courses were introduced in MR20 syllabus

S.No	Professional Elective/ Open Elective	Subject Code	Subject Name
1	Professional Elective	A3128	Advanced Thermal Engineering
2	Professional Elective	A3129	Gas Dynamics
3	Professional Elective	A3130	Turbo Machines
4	Professional Elective	A3131	Cryogenic Engineering
5	Professional Elective	A3132	Solar Energy Technology
6	Professional Elective	A3133	Fuels, Combustion And Environment
7	Professional Elective	A3134	Experimental Techniques In Fluid Flow & Heat Transfer

As per MR-20 regulations, the students are required to publish one research article based on his/her M.Tech Project work in Scopus/SCI/SCIE/ESCI indexed journal to make him/her eligible for award of M.Tech Degree on completion of all other academic requirements.

Revised

Shudani

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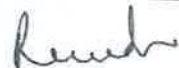



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Department of Mechanical Engineering

The 13th Board of Studies meeting for M.Tech. (TE) is held online on Zoom Platform.

The following members have attended to review on matters such as Schema, Syllabus of MR 20 regulations (2 Year M.Tech (TE) Programme and other points as per agenda.

Sl.No	Name of the Member	Designation & Official Address	Status BoS	Signature
1.	Dr. A. Raveendra	Principal, MREC	Special Invitee	
2.	Dr. Yogesh Madaria	Assoc. Professor & Head-ME, MREC	Chairman-BOS	
3.	Dr. K. Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	Online
4.	Dr. M. Srinivas	Professor, MED, BITS Hyderabad	Expert Member	Online
5.	Dr. N. K. Singh	General Manager (Mechanical) BHEL Corporate R & D Division, Hyderabad	Expert Member from Industry	Online
6.	Dr. Shaik Hussain	Assoc. Professor	Faculty Member	
7.	Dr. A. Paul Praveen	Assoc. Professor	Faculty Member	




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Department of Mechanical Engineering

M.Tech(Thermal Engineering)–Action Taken Report for BoS

Aug20th,2020

The action taken report for the 13th Board of studies meeting for the M.Tech(TE)-BOS conducted on 20-08-2020 at 2:30 PM in Online Mode, is follows:

Resolution 1: The BOS members unanimously approved the introduction of MR20 Schema for the students admitted from the Academic Year 2020-21 onwards

Action Taken: Implemented from A.Y.2020-21

Resolution 2: The BOS members had given their approval for new introducing courses like Advanced Thermal Engineering, Gas Dynamics, Turbo Machines, Cryogenic Engineering, Solar Energy Technology, Fuels, Combustion And Environment, Experimental Techniques In Fluid Flow & Heat Transfer in M.Tech(TE) curriculum.

Action Taken: Implemented from A.Y.2020-21

Resolution 2: After formulation of scheme of Instructions, the BoS has reviewed and revised the syllabus for M.Tech (TE) course as per the guide lines of the AICTE and JNTUH, Hyderabad.

Action Taken: The revised syllabus is implemented as MR20 regulation M.Tech. (TE) course.

Resolution 4: The BOS Members unanimously approve to use the open source software's for the respective laboratories.

Action Taken: The suggested softwares are installed.

Resolution 5: The BOS members have agreed to suggest a panel for paper setters and valuers/examiners for both theory and practical of all the subjects of M.Tech.(TE) Course.

Action Taken: The suggestion for setters and valuers /examiners are implemented for the M.Tech(TE) Course.

Resolution 6: If any item need to be modified /added/ deleted, the same may be circulated by E-mail to all members and after taking electronic/E-mail approval the modification may be made operational.

Action Taken: Implemented from the academic year 2020-21.



Prasad
PRINCIPAL
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(Post Via Kompally), Sec'bad-500 100

Prasad
BOS Chairman



MALLA REDDY ENGINEERING COLLEGE

(AUTONOMOUS)

Maisammaguda, Dhulapally (Post Via Kompally) Secunderabad – 500 100

Department of Mechanical Engineering

04.02.2021

Board of Studies Meeting on 06-02-2021 at 2:00 PM

The Board of Studies Meeting of B.Tech(Mechanical Engineering) Programme is scheduled on 06-02-2021 at 2:00 PM in online mode through Zoom Platform. The Agenda of the meeting is as follows:

AGENDA

- Action Taken Report (ATR) on previous BoS Meeting held in Aug. 2020.
- Discussion and review of B. Tech.(ME), Second Year Course schema and syllabus as per MR 20.
- Approval for removal of Thermodynamics Lab Course from the curriculums of B.Tech ME.
- Approval for addition of Fundamentals of Data Structures Lab in the III Semester of B.Tech.- ME.
- Approval for addition of Object-Oriented Programming through Java Lab in the IV Semester of B.Tech.- ME
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Suggestion and review on Innovative Teaching Practices in view of Online Classes.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.



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Chairman
Chairman BoS

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Department of Mechanical Engineering

Minutes of meeting B.Tech(Mech. Engg) - BoS

Feb.6th, 2021

The 14th Board of studies meeting for the B.Tech(ME) was conducted on 06-02-2021 at 2:00PM online on Zoom Platform.

The following BoS Members have attended the Meeting:

1. Dr. A. Raveendra	Principal, MREC (A)	Special Invitee
2. Dr.Yogesh Madaria	Assoc.Prof. & Head-ME	Chairman-BOS
3. Dr.K.Vijaya Kumar Reddy	Professor,MED, JNTUHCEH	JNTUH Nominee
4. Dr. V. Suresh Babu	Professor, MED, NITW	Expert Member (Outside parent university)
5. Dr.N.K. Singh	GM,BHEL-R&D,Hyderabad	Expert Member (Industry)
6. Dr.Shaik Hussain	Professor	Faculty Member
7. Dr. S. Udaya Bhaskar	Assoc.Professor	Faculty Member
8. Dr. N. Rishikant	Asst. Professor	Faculty Member
9. Mrs.M.V.Varalakshmi	Assoc.Professor	Faculty Member
10. Mr. P. Akhil	Trainer, [24]7.ai	Alumnus

The following was the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS (13th) Meeting held on 20-08-2020
- Discussion and review of B. Tech.(ME), Second Year Course schema and syllabus as per MR 20.
- Approval for removal of Thermodynamics Lab Course from the curriculums of B.Tech ME.
- Approval for addition of Fundamentals of Data Structures Lab in the III Semester of B.Tech.- ME.
- Approval for addition of Object-Oriented Programming through Java Lab in the IV Semester of B.Tech.- ME
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Suggestion and review on Innovative Teaching Practices in view of Online Classes.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.



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At the outset, Dr.Yogesh Madaria, Professor, Mech. Engg. Dept and Chairman of the B.Tech(ME)-Board of Studies, welcomed the members of the Board of Studies to the meeting and apprised the purpose of the meeting. He also briefed about the previous BoS meeting, resolutions and placed on record, the proposed course structure for II Year B.Tech-ME Program under MR20 regulations. Later, Board of studies Members had in detail discussed, reviewed each item of the proposed agenda and finally the following items have been resolved unanimously by all the members of BoS.

The following specific information about the changes in the curriculum (as compared to MR18 Regulations) for II Year B.Tech-ME were shared with the BoS members:

1. Shifting of *Probability and Statistics* from Semester-IV to Semester-III.
2. *Machine Drawing Lab* is removed from the curriculum. The related content has been added to *Production Drawing and Practices Lab*.
3. *Thermodynamics Lab* is removed from the curriculum.
4. Addition of *Fundamentals of Data Structures Lab* in Semester-III with 4 Practice hours, having 2 Credits.
5. Shifting of *Thermodynamics* from Semester-III to Semester-IV.
6. Replacing the course *Instrumentation and Control System* with *Metrology and Instrumentation*, in IV Semester.
7. Addition of *Object-Oriented Programming through Java Lab* in Semester-IV with 4 Practice hours, having 2 Credits.
8. The following new courses were introduced in MR17 syllabus

S. No	Professional Elective/ Open Elective	Subject Code	Subject Name
1	Professional Elective	70357	Advances In Welding Technology
2	Professional Elective	70358	Industrial Automation
3	Professional Elective	70361	Fatigue, Creep And Fracture Mechanics
4	Professional Elective	70362	Gear Engineering
5	Professional Elective	70363	Theory Of Elasticity And Plasticity
6	Open Elective	70369	Solar Energy
7	Open Elective	70370	Non Destructive Testing
8	Open Elective	70371	Foundry Technology
9	Open Elective	70372	Mechanics Of Composite Materials
10	Open Elective	70373	Concurrent Engineering

9. The following new courses were introduced in MR18 syllabus

S. No	Professional Elective/ Open Elective	Subject Code	Subject Name
1	Professional Elective	80359	Heating Ventilation And Air Conditioning

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2	Professional Elective	80360	Non Destructive Testing
3	Professional Elective	80361	Foundry Technology
4	Professional Elective	80362	Advanced Computer Aided Design
5	Professional Elective	80363	Advanced Mechanics Of Machinery
6	Open Elective	80369	Material Characterization
7	Open Elective	80370	Advances In Welding Technology
8	Open Elective	80371	Industrial Automation
9	Open Elective	80372	Applied Tribology
10	Open Elective	80373	Experimental Stress Analysis

The syllabus for *Metrology and Instrumentation* course was presented before the BOS members for discussion and approval.

The following suggestions were given by the BoS Members:

1. JNTUH Nominee, Dr. K. Vijaya Kumar Reddy suggested to let the *Thermo dynamics* course be there in III Semester itself as this is the pre-requisite course for other courses like Fluid Mechanics and Hydraulic Machines and Thermal Engineering-I.
2. Subject Expert, Dr. V. Suresh Babu suggested to include a topic on *Uncertainty analysis* in the III Module of *Metrology and Instrumentation* course.

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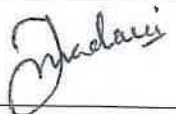

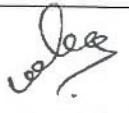

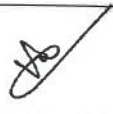
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Department of Mechanical Engineering

The Board of Studies meeting for B.Tech.-Mechanical Engineering Programme is held online on Zoom Platform.

The following members have attended to review on matters such as Schema, Syllabus of MR20 regulations (4 Year B.Tech(ME) Programme and other points as per agenda.

Sl.No	Name of the Member	Designation & Official Address	Category	Signature
1.	Dr. A. Raveendra	Principal, MREC	Special Invitee	
2.	Dr. Yogesh Madaria	Professor & Head-ME, MREC	Chairman-BOS	
3.	Dr. K. Vijaya Kumar Reddy	Professor, MED, JNTUHCEH	JNTUH Nominee	Online
4.	Dr. V. Suresh Babu	Professor, MED, NITW	Expert Member (Outside Parent University)	Online
5.	Dr. N. K. Singh	GM, BHEL-R&D, Hyderabad	Expert Member (Industry)	Online
6.	Dr. Shaik Hussain	Professor, ME, MREC	Faculty Member	
7.	Dr. S. Uday Bhaskar	Assoc. Professor, ME, MREC	Faculty Member	
8.	Dr. N. Rishikanth	Asst. Professor, ME, MREC	Faculty Member	
9.	Mrs. M. V. Varalakshmi	Assoc. Professor, ME, MREC	Faculty Member	
10.	Mr. P. Akhil	[24]7.ai, Hyderabad	Alumnus	Online




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DepartmentofMechanicalEngineering

B.Tech(Mech.Engg)-Action Taken Reoprt forBoS

Feb 06th,2021

The action taken report for the 14th Board of studies meeting for the B.Tech(ME)-BOS conducted on 06-02-2021 at 2:00 PM in Online Mode, is follows:

Resolution 1: The BOS members unanimously approved the introduction of MR20 Schema for the students admitted from the Academic Year 2020-21 onwards

Action Taken: ImplementedfromA.Y.2020-21

Resolution 2: The BOS members had given their approval for Object-Oriented Programming through Java Lab IV Semester B.Tech ME curriculum.

Action Taken: ImplementedfromA.Y.2020-21

Resolution 2: After formulation of scheme of Instructions, the BoS has reviewed and revised the syllabus for B.Tech (Mech) course as per the guide lines of the AICTE and JNTUH, Hyderabad.

Action Taken: The revised syllabus is implemented as MRIS regulation B.Tech. (ME) course.

Resolution 4: The BOS Members unanimously approve to use the open source software's for the respective laboratories.

Action Taken: The suggested softwares are installed.

Resolution 5: The BOS members have agreed to suggest a panel for paper setters and valuers /examiners for both theory and practical of all the subjects of B.Tech.(ME) Course.

Action Taken: The suggestion for setters and valuers /examiners are implemented for the B.Tech (ME) Course.

Resolution 6: If any item need to be modified /added/ deleted, the same may be circulated by E-mail to all members and after taking electronic/E-mail approval the modification may be made operational.

Action Taken: Implemented from the academic year 2020-21.


BOS Chairman



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Department of Mechanical Engineering

Board of Studies Meeting on 06-02-2021 at 2.30 PM

The Board of Studies Meeting of M.Tech (Machine Design) programme is scheduled on 06-02-2021 at 2.30 PM in online mode using Zoom platform. The Agenda of the meeting is as follows:

AGENDA

1. Action Taken Report (ATR) on previous BoS Meeting held on 20-08-2020
2. Discussion and review of II Year, M. Tech.(MD) MR20 regulations course schema and syllabus.
3. Suggestion and review panel of names for Paper setters, and examiners for both theory and practical examinations that will be submit for Academic council for approval.
4. Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
5. Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
6. Approval of any other items with the permission of the Chairman.



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Chairman, BOS

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Department of Mechanical and Engineering

Minutes of meeting M.Tech (Machine Design) - BoS

February 06th, 2021

The Board of studies meeting for the M.Tech(MD) was conducted on 06-02-2021 at 2:30 PM online on Zoom Platform.

The following BoS Members have attended the Meeting:

1. Dr. A. Raveendra	Principal, MREC (A)	Special Invitee
2. Dr. Yogesh Madaria	Professor & Head-ME	Chairman-BOS
3. Dr.K.Vijaya Kumar Reddy	Professor,MED, JNTUHCEH	JNTUH Nominee
4. Dr. V. Suresh Babu	Professor, MED, NITW	Expert Member (Outside parent university)
5. Dr. N. K. Singh	GM,BHEL-R&D,Hyderabad	Expert Member (Industry)
6. Dr. S. Udaya Bhaskar	Assoc. Professor	Faculty Member
7. Mrs.M.V.Varalakshmi	Assoc.Professor	Faculty Member

The following was the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS Meeting held on 20-08-2020
- Discussion and review of II Year, M. Tech.(MD) MR20 regulations course schema and syllabus.
- Suggestion and review panel of names for Paper setters, and examiners for both theory and practical examinations that will be submit for Academic council for approval.
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.

At the outset, Dr.Yogesh Madaria, Professor., Mech. Engg. Dept and Chairman of the M.Tech(MD)-Board of Studies, welcomed the members to the Board of Studies to the meeting and appraised the purpose of the meeting. He also briefed about the previous BoS meeting, resolutions and placed on record, the proposed course structure of II Year, M.Tech (MD) as per MR20 regulations. Later Board of studies Members, in detail discussed, reviewed each item of the proposed agenda and finally the following items have been resolved unanimously by all the members of BoS.



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The Structure and Syllabus for M.Tech MR20 batch have been approved with the following suggestions

S.NO	Subject code	Subject name	Change / Modifications suggested
1	A3221	Advanced Tool Design	MODULE I: Introduction to DNC systems and adaptive control, type of DNC systems, Adaptive control with constraints. MODULE IV: Cutting Variables, Tool geometry, cutting fluid, Cutting conditions for limiting tool life.

The following new courses were introduced in MR20 syllabus

S.No	Professional Elective/ Open Elective	Subject Code	Subject Name
1	Professional Elective	A3336	Materials Technology
2	Professional Elective	A3337	Quality Concepts in Design
3	Professional Elective	A3338	Applied Engineering Acoustics
4	Professional Elective	A3339	Design with Advanced Engineering Materials
5	Professional Elective	A3340	Advanced Welding Processes
6	Professional Elective	A3341	Soft Computing in Engineering
7	Professional Elective	A3342	Plastics Engineering
8	Professional Elective	A3343	Material Characterization Methods

The Board of Studies Members unanimously approved the proposal of continuing the same curriculum (as per MR-18) for the batch to be admitted in A.Y. 2020-21.

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Department of Mechanical Engineering

The Board of Studies meeting for M.Tech. (MD) (PG Programme) is held online on Zoom Platform.

The following members have attended to review on matters such as Schema, Syllabus of MR20 regulations (2 Year M.Tech (MD) Programme and other points as per agenda.

Sl.No	Name of the Member	Designation & Official Address	Status BoS	Signature
1.	Dr. A. Raveendra	Principal, MREC	Special Invitee	
2.	Dr. Yogesh Madaria	Professor & Head-ME	Chairman-BOS	
3.	Dr.K. Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	Online
4.	Dr.V.Suresh Babu	Prof,ME, NIT Warangal	Subject Expert Member	Online
5.	Dr. N. K. Singh	General Manager (Mechanical) BHEL Corporate R & D Division, Hyderabad	Expert Member from Industry	Online
6.	Dr. S. Uday Bhaskar	Assoc. Professor, ME, MREC	Faculty Member	
7.	Mrs. M. V. Varalakshmi	Assoc. Professor, ME, MREC	Faculty Member	




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Department of Mechanical Engineering

M.Tech(Machine Design)-Action Taken Report for BoS

Feb 06th, 2021

The action taken report for the 14th Board of studies meeting for the M.Tech(MD)-BOS conducted on 06-02-2021 at 2:00 PM in Online Mode, is follows:

Resolution 1: The BOS members unanimously approved the introduction of MR20 Schema for the students admitted from the Academic Year 2020-21 onwards

Action Taken: Implemented from A.Y.2020-21

Resolution 2: The BOS members had given their approval for new introducing courses like Materials Technology, Quality Concepts in Design, Applied Engineering Acoustics, Design with Advanced Engineering Materials, Advanced Welding Processes, Soft Computing in Engineering, Plastics Engineering, Material Characterization Methods in M.Tech(MD) curriculum.

Action Taken: Implemented from A.Y.2020-21

Resolution 2: After formulation of scheme of Instructions, the BoS has reviewed and revised the syllabus for M.Tech (MD) course as per the guide lines of the AICTE and JNTUH, Hyderabad.

Action Taken: The revised syllabus is implemented as MR20 regulation M.Tech. (MD) course.

Resolution 4: The BOS Members unanimously approve to use the open source software's for the respective laboratories.

Action Taken: The suggested softwares are installed.

Resolution 5: The BOS members have agreed to suggest a panel for paper setters and valuers/examiners for both theory and practical of all the subjects of B.Tech.(MD) Course.

Action Taken: The suggestion for setters and valuers /examiners are implemented for the M.Tech(MD) Course.

Resolution 6: If any item need to be modified /added/ deleted, the same may be circulated by E-mail to all members and after taking electronic/E-mail approval the modification may be made operational.

Action Taken: Implemented from the academic year 2020-21.



Principal
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BOS Chairman
BOS Chairman



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Department of Mechanical Engineering

04.02.2021

Board of Studies Meeting on 06-02-2021 at 2:00 PM

The Board of Studies Meeting of B.Tech(Mechanical Engineering) Programme is scheduled on 06-02-2021 at 2:00 PM in online mode through Zoom Platform. The Agenda of the meeting is as follows:

AGENDA

- Action Taken Report (ATR) on previous BoS Meeting held in Aug. 2020.
- Discussion and review of B. Tech.(ME), Second Year Course schema and syllabus as per MR 20.
- Approval for removal of Thermodynamics Lab Course from the curriculums of B.Tech ME.
- Approval for addition of Fundamentals of Data Structures Lab in the III Semester of B.Tech.- ME.
- Approval for addition of Object-Oriented Programming through Java Lab in the IV Semester of B.Tech.- ME
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Suggestion and review on Innovative Teaching Practices in view of Online Classes.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.



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Chairman
Chairman BoS



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Department of Mechanical Engineering

Board of Studies Meeting on 06-02-2021 at 3:00 PM


The Board of Studies Meeting of M.Tech (Thermal Engineering) programme is scheduled on 06-02-2021 at 3.00 PM in online mode using Zoom Platform. The Agenda of the meeting is as follows:

AGENDA

1. Action Taken Report (ATR) on previous BoS Meeting held on 20-08-2020
2. Discussion and review of II Year, M. Tech.(TE) MR20 regulations course schema and syllabus.
3. Suggestion and review panel of names for Paper setters, and examiners for both theory and practical examinations that will be submit for Academic council for approval.
4. Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
5. Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
6. Approval of any other items with the permission of the Chairman.


Chairman BOS




Principal
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Department of Mechanical Engineering

Minutes of meeting M.Tech(Thermal Engg) - BoS

February 06th, 2021

The Board of studies meeting for the M.Tech (TE) was conducted on 06-02-2021 at 3:00 PM online on Zoom Platform.

The following BoS Members have attended the Meeting:

1. Dr. A. Raveendra	Principal, MREC (A)	Special Invitee
2. Dr. Yogesh Madaria	Professor & Head-ME	Chairman-BOS
3. Dr.K.Vijaya Kumar Reddy	Professor,MED, JNTUHCEH	JNTUH Nominee
4. Dr. N. K. Singh	GM,BHEL-R&D,Hyderabad	Expert Member (Industry)
5. Dr. Shaik Hussain	Professor	Faculty Member

The following was the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS Meeting held on 20-08-2020
- Discussion and review of II Year, M. Tech.(TE) MR20 regulations course schema and syllabus.
- Suggestion and review panel of names for Paper setters, and examiners for both theory and practical examinations that will be submit for Academic council for approval.
- Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
- Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- Approval of any other items with the permission of the Chairman.

At the outset, Dr.Yogesh Madaria, Professor., Mech. Engg. Dept and Chairman of the M.Tech (TE)-Board of Studies, welcomed the members to the Board of Studies to the meeting and appraised the purpose of the meeting. He also briefed about the previous BoS meeting, resolutions and placed on record, the proposed course structure of II Year, M.Tech (MD) as per MR20 regulations. Later Board of studies Members, in detail discussed, reviewed each item of the proposed agenda and finally the following items have been resolved unanimously by all the members of BoS.

The Structure and Syllabus for M.Tech MR20 batch have been approved with the following suggestions

S.NO	Subject code	Subject Name	Change / Modifications suggested
1	A3105	Advanced Refrigeration & Air Conditioning	Module-I: Dual pressure vapour compression system and its analysis
2	A3106	Advanced Fluid Mechanics	Module II: dynamics of viscous compressible flow



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3	A3107	Advanced IC Engines	Module V: Hydrogen fuel cell
4	A3119	Energy Conservation & Management	Module III: Components of EB billing – HT and LT supply, Transformers, Cable Sizing, Concept of Capacitors, Power Factor Improvement, Harmonics.
5	A3123	Alternate Fuels And Pollutions	Module IV: Vegetable oils and Biodiesel Transesterification – Blending of biodiesels. Combustion

The following new courses were introduced in MR20 syllabus

S.No	Professional Elective/ Open Elective	Subject Code	Subject Name
1	Professional Elective	A3135	Convective Heat Transfer
2	Professional Elective	A3136	Thermal Nuclear Hydel And Otec Power Plants
3	Professional Elective	A3137	Energy Conservation In Thermal Systems
4	Professional Elective	A3138	Boiling And Two-Phase Flow
5	Professional Elective	A3139	Multi – Phase Flow
6	Professional Elective	A3140	INDUSTRY 4.0 AND IIoT
7	Professional Elective	A3141	Fluid Power Systems
8	Professional Elective	A3142	Thermal Coatings

As per MR-20 regulations, the students are required to publish one research article based on his/her M.Tech Project work in Scopus/SCI/SCIE/ESCI indexed journal to make him/her eligible for award of M.Tech Degree on completion of all other academic requirements.

The Board of Studies Members unanimously approved the proposal of continuing the same curriculum (as per MR-18) for the batch to be admitted in A.Y. 2020-21.

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Department of Mechanical Engineering

The Board of Studies meeting for M.Tech. (TE) is held online on Zoom Platform.

The following members have attended to review on matters such as Schema, Syllabus of MR 20 regulations (2 Year M.Tech (TE) Programme and other points as per agenda.

Sl.No	Name of the Member	Designation & Official Address	Status BoS	Signature
1.	Dr. A. Raveendra	Principal, MREC	Special Invitee	
2.	Dr.Yogesh Madaria	Professor & Head -ME	Chairman-BOS	
3.	Dr.K.Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	Online
4.	Dr. N. K. Singh	General Manager (Mechanical) BHEL Corporate R & D Division, Hyderabad	Expert Member from Industry	Online
5.	Dr.Shaik Hussain	Assoc. Professor	Faculty Member	




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Department of Mechanical Engineering

M.Tech(Thermal Engineering)–Action Taken Report for BoS

Feb 06th,2021

The action taken report for the 14th Board of studies meeting for the M.Tech(TE)-BOS conducted on 06-02-2021 at 2:00 PM in Online Mode, is follows:

Resolution 1: The BOS members unanimously approved the introduction of MR20 Schema for the students admitted from the Academic Year 2020-21 onwards

Action Taken: Implemented from A.Y.2020-21

Resolution 2: The BOS members had given their approval for new introducing courses Convective Heat Transfer, Thermal Nuclear Hydel And Otec Power Plants, Energy Conservation In Thermal Systems, Boiling And Two-Phase Flow, Multi – Phase Flow, INDUSTRY 4.0 AND IIoT, Fluid Power Systems, Thermal Coatings in M.Tech(TE) curriculum.

Action Taken: Implemented from A.Y.2020-21

Resolution 2: After formulation of scheme of Instructions, the BoS has reviewed and revised the syllabus for M.Tech (TE) course as per the guide lines of the AICTE and JNTUH, Hyderabad.

Action Taken: The revised syllabus is implemented as MR20 regulation M.Tech. (TE) course.

Resolution 4: The BOS Members unanimously approve to use the open source software's for the respective laboratories.

Action Taken: The suggested softwares are installed.

Resolution 5: The BOS members have agreed to suggest a panel for paper setters and valuers/examiners for both theory and practical of all the subjects of B.Tech.(TE) Course.

Action Taken: The suggestion for setters and valuers /examiners are implemented for the M.Tech(TE) Course.

Resolution 6: If any item need to be modified /added/ deleted, the same may be circulated by E-mail to all members and after taking electronic/E-mail approval the modification may be made operational.

Action Taken: Implemented from the academic year 2020-21.



Principal
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BOS Chairman
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