

# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100.

Department of Mechanical Engineering

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

JUNE 28<sup>th</sup>, 2018

The 10<sup>th</sup> Board of studies meeting for the B.Tech (ME) - BoS is conducted on 28-06-2018 at 10:30 AM in the conference hall, Department of mechanical engineering, Malla Reddy Engineering College (Autonomous), Hyderabad.

The following BoS Members have attended the Meeting:

1. Dr.Yogesh Madaria	Assoc.Prof. & Head-ME	Chairman-BOS
2. Dr.K.Vijay Kumar Reddy	Professor,MED, JNTUHCEH	JNTUH Nominee
3. Dr.V.Suresh Babu	Professor, ME, NIT Warangal	Subject Expert
4. Dr.Narsimhulu Sanke	Prof,MED, Osmania University	Subject Expert
5. Dr.N.K. Singh	GM,BHEL-R&D,Hyderabad	Expert Member
6. Dr.T.Ramachandran	Assoc. Professor	Faculty Member
7. Dr. G.Sangamesh	Asst. Professor	Faculty Member
8. Dr. A.Raveendra	Professor	Faculty Member
9. Mrs.M.V.Varalakshmi	Assoc. Professor	Faculty Member
10. Mr. P. Akhil	[24]7.ai, Hyderabad	Alumni(MR14)

The following is the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS (8<sup>th</sup>) Meeting held in A.Y 2018-19
- Discussion and review of B. Tech.(ME) MR18 regulations course schema and syllabus.
- Open Elective Subjects offered by Mechanical Engineering to other UG (B.Tech) Programmes
- 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.



*Raveesh*  
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The Structure and Syllabus for B.Tech MR15 batch have been approved with the following suggestions

S.NO	Subject code	Subject name	Change / Modifications suggested
1	50337	CAD / CAM	Module – IV Flexible Manufacturing Systems: Introduction of FMS, FMS equipments, Material handling and control systems Advantages and limitations of FMS Module - V: computer aided testing, integration of CAQC with CAD/CAM.
2	50339	COMPUTATIONAL FLUID DYNAMICS	Module – II :transient heat conduction, and finite difference application in convective heat transfer. Module - IV: expanded forms of Navierstokes equations, conservation of energy principle, special forms of the Navier-stokes equations.
3	50342	RENEWABLE ENERGY SOURCES	Module - V: Fuel cells, principles, faraday's law's, thermodynamic aspects, selection of fuels and operating conditions.

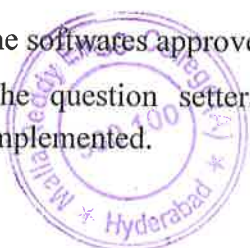
At the outset, Dr.Yogesh Madaria, Assoc.Prof., Mech. Dept and Chairman of the B.Tech(ME)- Board of Studies, welcomed the members to the Board of Studies meeting and appraised the purpose of the meeting. He also briefed about the previous BoS meeting, resolutions and placed on record, the existing syllabus of MR 18 regulations and also requested for any required modifications. 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 resolutions are approved after careful discussion and observations.**

1. The revised scheme of instructions implemented as MR18 regulation B.Tech. (ME) course is approved by BoS members
2. The revised syllabus is implemented as MR18 B.Tech. (ME) course syllabus.
3. The following new courses were introduced in syllabus


S.No	Subject Code	Subject Name
1	80356	Industrial Saftey
2	80357	Renewable Energy Sources
3	80352	Total Quality Management

4. The softwares approved the BoS members were installed in the respective labs.
5. The question setters and valuator /examiners suggested for the B.Tech (ME) course is implemented.



*R. Srinivas*  
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Finally, Dr.Yogesh Madaria, Chairman –B.Tech(Mech) Board of Studies has expressed his sincere thanks to all the Members of the Board of studies for their active participation and contribution. The meeting concluded at 12:00 noon.

  
Dr. Yogesh Madaria  
Chairman –B.Tech(Mech)-BOS

Copy to  
The Chairman of Academic Council &Principal ,MREC  
All the Members of BOS








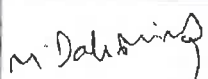



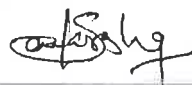
  
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# MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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

## Department of Mechanical Engineering

The BoS meeting is held on 28.06.2018 and the following members have attended for finalization of Schema, Syllabus and other parts as per Agenda for MR18 Regulations(students admitting from AY 2018-19 onwards) for B.Tech ( Mechanical Engineering) programme.

Sl. No	Name of the Member	Designation & Official Address	Status BoS	Signature
1	Dr.S Sudhakara Reddy	Principal, MREC (A)	Special Invitee	
2.	Dr.S.Gunasekharan	Professor and Head, ME, MREC(A)	Chairman-BOS	
3.	Dr.K.Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	
4.	Dr.V.Suresh Babu	Prof, ME, NIT Warangal	Subject Expert Member	
5.	Dr.Narsimhulu Sanke	Professor ME-UCE(A), Osmania University.	Subject Expert Member	
6.	Sri. M Dakshina Murty	AGM,BHEL-R&D, Hyderabad	Expert Member from Industry	
7.	Mr V Narasimha Reddy	Assoc. Prof., ME,MREC(A)	Faculty Member	
8.	Dr.P.Paul Pandian	Professor ME, MREC(A)	Faculty Member	
9.	Dr.A.Raveendra	Professor, ME,MREC	Faculty Member	
10.	Mr. Metpally Saikrishna	Opti Design Solutions Hyderabad	Alumni	



  
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# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100.

Department of Mechanical Engineering

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

December 20<sup>th</sup>, 2018

The Board of Studies meeting for the B.Tech (ME) is conducted on 20-12-2018 at 10:30 AM in the conference hall, Malla Reddy Engineering College (Autonomous), Secunderabad.

The following BoS Members have attended the Meeting:

1. Dr. Yogesh Madaria	Assoc. Prof & Head-ME	Chairman-BOS
2. Dr. K. Vijay Kumar Reddy	Professor, MED, JNTUHCEH	JNTUH Nominee
3. Dr. V. Suresh Babu	Professor, ME, NIT Warangal	Subject Expert from outside Parent University
4. Dr. Narsimhulu Sanke	Professor, ME, UCE, Osmania University	Subject Expert from outside Parent University
5. Dr. N.K. Singh	GM, BHEL-R&D, Hyderabad	Expert from Industry
6. Dr. T. Ramachandran	Professor	Faculty Member
7. Dr. G. Sangamesh	Asst. Professor	Faculty Member
8. Dr. A. Raveendra	Assoc. Professor	Faculty Member
9. Mrs. M. V. Varalakshmi	Assoc. Professor	Faculty Member
10. Mr. P. Akhil	[24]7.ai, Hyderabad	Alumni Representative (MR14)

The following is the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS Meeting held in A.Y 2018-19
- Discussion and review of B. Tech. (ME) MR18 regulations course schema and syllabi.
- Open Elective Subjects offered by Mechanical Engineering to other UG (B.Tech) Programmes
- 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.

The Structure and Syllabus for B.Tech MR15 batch have been approved with the following suggestions



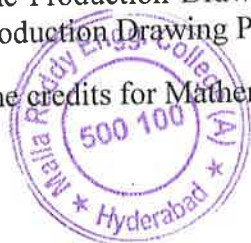
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S.NO	Subject code	Subject name	Change / Modifications suggested
1	50348	Nano technology	Module - IV : Current status of nano Biotechnology, Future perspectives of Nanobiology, Nano sensors. Module – V: Molecular Nanomechanics, Molecular devices, Nanotribology, studying tribology at nanoscale, Nanotribology applications.
2	50350	Automation in manufacturing	Module - III: Automated material handling: Types of equipment, functions, analysis and design of material handling systems conveyor systems, automated guided vehicle systems. Module - IV: Application of A.C. in machining operations. Use of various parameters such as cutting force, Temperatures, vibration and acoustic emission.

At the outset, Dr.Yogesh Madaria, Assoc. Prof. and Head, Mech. Engg. Dept. and Chairman of the B.Tech (ME)- Board of Studies, welcomed the members to the Board of Studies and appraised the purpose of the meeting. He also briefed about the previous BoS meeting, resolutions and placed on record, the existing syllabi of MR 18 regulations and also proposed modifications for MR18 regulations syllabi. Later, Board of Studies members have 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 resolutions are approved after careful discussion and observations.**

1. The revised scheme of instructions implemented as MR18 regulation B.Tech. (ME) course is approved by BoS members
2. The revised syllabus is implemented as MR18 B.Tech. (ME) course syllabus.
3. The software approved by the BoS members were installed in the respective labs.
4. The question paper setters and evaluators /examiners suggested for the B.Tech (ME) course is implemented.
5. B.Tech(ME) Schema with overall 160 credits and practical course with single credit suggested by the committee is executed for MR18 Regulations
6. The *Basic Manufacturing Practices Lab* has been renamed into *Engineering Workshop* and the subjects *Machine Tools* and *Engineering Metrology* are combined into one subject as *Machine Tools and Metrology*.
7. The subject *Electrical Drives and Micro-processors* has been removed from the curriculum and the *Finite Element Method* subject is shifted from Professional core to Professional elective.
8. The *Production Drawing Practice & Instrumentation lab* is split into two different labs namely, *Production Drawing Practice Lab* and *Instrumentation labs*.
9. The credits for Mathematics subjects were increased from 3 to 4.



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2	83213	Fundamentals of Tribology	<p>MODULE III: Hydrodynamic journal bearings: Friction forces and power loss in a lightly loaded journal bearing, Petroff 's equation, mechanism of pressure development in an oil film, and Reynold's equation in 2D</p> <p>MODULE V: Bearing Materials: Commonly used bearings materials, and properties of typical bearing materials. Advantages and disadvantages of bearing materials</p>
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At the outset, Dr. Yogesh Madaria, Assoc. Prof., Mech. Dept and Chairman of the M.Tech (Machine Design) - Board of Studies, welcomed the members to the Board of Studies meeting and appraised the purpose of the meeting. He also briefed about the previous BOS meeting, resolutions and placed on record and modifications for MR18 regulations syllabus. 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 resolutions are made after careful discussion and observations.


1. The BOS Members have thoroughly reviewed and discussed the Scheme of instructions, periods per week, and number of credits for all 2 years of M.Tech (Machine Design) course as per the guide lines of the AICTE and JNTUH, Hyderabad. The BoS has collectively resolved to implement this scheme of Instructions, periods per week and number of credits for all 2 years of M.Tech (Machine Design) Course from the academic year 2018-19 onwards. The devised scheme of instructions and other items have been given in Annexure-I.
2. After formulation of scheme of Instructions, the BOS has reviewed and devised the syllabus for M.Tech(Machine Design) Course as per the guide lines of the AICTE and JNTUH, Hyderabad.

Finally, Dr. Yogesh Madaraia, Chairman – M.Tech(Machine Design) Board of Studies has expressed his sincere thanks to all the Members of the Board of studies for their active participation and contribution. The meeting concluded at 2:00 PM.

  
Chairman -BOS

Copy to  
The Chairman of Academic Council & Principal, MREC  
All the Members of BOS



  
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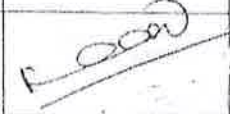
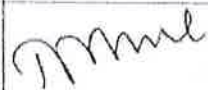
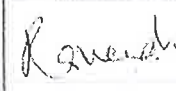



## MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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### Department of Mechanical Engineering

The Board of Studies meeting for B.Tech. (ME)(UG Programme) is held in the conference hall, Malla Reddy Engineering College.

The following members have attended to review on matters such as Schema, Syllabus of MR18 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.Yogesh Madaria	Assoc. & Head-ME	Chairman-BOS	
2.	Dr.K.Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	
3.	Dr.V.Suresh Babu	Prof, ME, NIT Warangal	Subject Expert Member	
4.	Dr.Narsimhulu Sanke	Professor ME-UCE(A), Osmania University.	Subject Expert Member	
5.	Dr. N. K. Singh	General Manager (Mechanical) BHEL Corporate R & D Division, Hyderabad	Expert Member from Industry	
6.	Dr.T.Ramachandran	Professor	Faculty Member	
7.	Dr.A.Raveendra	Professor	Faculty Member	
8.	Dr.G.Sangamesh	Asst. Professor	Faculty Member	
9.	Mrs.M.V.Varalakshmi	Assoc.. Professor	Faculty Member	
10.	Mr. P. Akhil	[24]7.ai, Hyderabad	Alumni	



  
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# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

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Department of Mechanical Engineering

## B.Tech(Mech. Engg) – Action Taken Reoprt for BoS

December 20<sup>th</sup>, 2018

The action taken report for the 9<sup>th</sup> Board of studies meeting for the B.Tech (ME) - BoS conducted on 02-07-2018 at 10:30 AM for in the Department of mechanical engineering, Malla Reddy Engineering College (Autonomous), Hyderabad is follows:

**Resolution 1:** The BoS Members have thoroughly reviewed and discussed the Scheme of instructions, periods per week, and number of credits for all 4 years of B.Tech (Mech) course as per the guidelines of the AICTE and JNTUH, Hyderabad. The BoS has collectively resolved to implement this scheme of Instructions, periods per week and number of credits for all 4 years of B.Tech (ME) Course from the academic year 2018-19 onwards.

**Action Taken:** The revised scheme of instructions is implemented as MR18 regulation B.Tech. (ME) course.

**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 MR18 regulation B.Tech. (ME) course.

**Resolution 3:** The BOS Members unanimously approve to use the open source software's for the respective laboratories.

**Action Taken:** The suggested softwares are installed.

**Resolution 4:** 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 5:** 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 2018-19.

**Resolution 6:** Committee's approved to implementing B.Tech (ME) Schema with 160 credits for MR18 Regulations.

**Action Taken:** Implemented B.Tech(ME) Schema with 160 credits for MR18 Regulations.



*Mme Rande*

*Rande*  
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**Resolution 7** : Reduce the credits of all practical subjects to one credit

**Action Taken** : The credits of all practical subjects were made to single credit subjects.

**Resolution 8** : Change the name of subject from Basic Manufacturing Practices lab into Engineering Workshop

**Action Taken** : The Basic Manufacturing Practices lab has been renamed into Engineering Workshop

**Resolution 9** : Two separate subjects namely Machine Tools and Engineering Metrology made as single subject as Machine Tools and Metrology

**Action Taken** : The subjects Machine Tools and Engineering Metrology are combined into one subject as Machine Tools and Metrology

**Resolution 10:** Remove the subject Electrical Drives and Micro processors

**Action Taken:** The subject Electrical Drives and Micro processors has been removed

**Resolution 11:** Shift Finite Element Method subject from Professional core to Professional elective

**Action Taken:** Finite Element Method subject is shifted from Professional core to Professional elective.

**Resolution 12:** Split the Production Drawing Practice & Instrumentation lab in to two separate labs namely Production Drawing Practice lab and Instrumentation lab.

**Action Taken:** The Production Drawing Practice & Instrumentation lab is splitted into two different Production Drawing Practice and Instrumentation labs..

**Resolution 13:** Increase the credits for Mathematics subjects from 3 to 4

**Action Taken:** The credits for Mathematics subjects were increased from 3 to 4.

**Resolution 14:** Shift Engineering graphics subject from first semester to second semester

**Action Taken:** As is it have some practical constraints, it is very difficult to shift the first semester to second one.

*M. Ravi* *Ravi*

*Shadava*  
BoS Chairman



*Ravi*  
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**MALLA REDDY ENGINEERING COLLEGE (Autonomous)**

Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100.

Department of Mechanical and Engineering

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

JUNE 28<sup>th</sup>, 2018

The 10<sup>th</sup> Board of studies meeting for the M.Tech (Machine Design) - BoS is conducted on 28-06-2018 at 10:30 AM in the conference hall, Department of Mechanical and Engineering, Malla Reddy Engineering College (Autonomous), Hyderabad.

The following BOS Members have attended the Meeting:

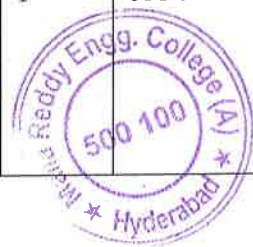
1.	Dr. Dr. Yogesh Madaria	Assoc Prof & Head, MED,MREC(A)	Chairman-BOS
2.	Dr. K.Vijay Kumar Reddy	Professor,MED, JNTUH CEH	JNTUH Nominee
3.	Dr. V.Suresh Babu	Assoc.Prof, ME, NIT Warangal	Subject Expert
4.	Dr. T. Ram Mohan Rao	Professor and Head, ME, Vasavi College of Engg Hyderabad	Subject Expert
5.	Dr. N. K. Singh	GM,BHEL-R&D, Hyderabad	Expert Member
6.	Dr. R.Dharmalingam	Professor, MED,MREC(A)	Faculty Member
7.	Dr. K. Mallikarjuna	Professor, MED, MREC(A)	Faculty Member
8.	Mr.K.Srinivasa Rao	Assoc Prof, MED, MREC(A)	Faculty Member
9.	Mr. Metpally Saikrishna	Opti Design Solutions, Hyderabad	Alumni (MR15)

The following is the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS (9<sup>th</sup> BoS) Meeting held in A.Y 2018-19
- Discussion and review of M.Tech.(TE) MR18 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.

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

S.NO	Subject code	Subject name	Change / Modifications suggested
1	83202	Mechanical vibrations	MODULE V:Application of concepts: Free vibration of strings – longitudinal oscillations of bars-transverse vibrations of beams- Torsional vibrations of shafts.



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10. The BoS members suggested to shift the Engineering Graphics from 1<sup>st</sup> to 2<sup>nd</sup> semester, owing to some practical constraints, it is very difficult to shift the first semester to second one. As the subject is offered to Non-Circuit branches in the first semester and to Circuit branches in the second semester. In this way, the number of classes in both the semesters remain almost equal. Shifting the subject for one branch will disturb the distribution of number of classes.

Finally, Dr.Yogesh Madaria, Chairman -B.Tech(Mech)Board of Studieshas expressed his sincere thanks to all the Members of the Board of studies for their active participation and contribution. The meeting concluded at 12:00 noon.

  
Chairman -BOS

Copy to  
The Chairman of Academic Council &Principal ,MREC  
All the Members of BOS






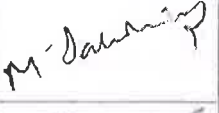
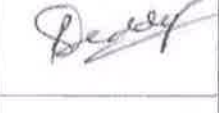

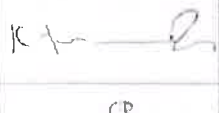
  
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# MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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

## Department of Mechanical Engineering

The BoS meeting is held on 28.06.2018 and the following members have attended for finalization of Schema, Syllabus and other parts as per Agenda for MR18 Regulations(students admitting from AY 2018-19 onwards) for M.Tech ( Machine Design) programme.

Sl. No	Name of the Member	Designation & Official Address	Status BoS	Signature
1	Dr.S Sudhakara Reddy	Principal, MREC(A)	Special Invitee	
2.	Dr.R.Dharmalingam	Assoc.Prof ME,MREC(A)	Chairman-BOS	 28/6/18
3.	Dr.K.Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	
4.	Dr.V.Suresh Babu	Prof, ME, NIT Warangal	Subject Expert Member	
5.	Dr.G.Laxmaiah	Chaitanya Bharathi Institute of Technology	Subject Expert Member	
6.	Sri. M Dakshina Murty	AGM,BHEL-R&D, Hyderabad	Expert Member from Industry	
7.	Dr R S Reddy	Professor ME,MREC(A)	Faculty Member	
8.	Dr.S.Gunasekharan	Professor and Head, ME,MREC(A)	Faculty Member	
9.	Mr.K Srinivasa Rao	Assoc. Professor, ME,MREC(A)	Faculty Member	
10.	Mr. Metpally Saikrishna	Opti Design Solutions Hyderabad	Alumni	



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# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

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## Department of Mechanical and Engineering

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

December 20<sup>th</sup>, 2018

The 10<sup>th</sup> Board of studies meeting for the M.Tech(Machine Design) - BoS is conducted on 20-12-2018 at 10:30AM in the Conference Hall, Malla Reddy Engineering College (Autonomous), Secunderabad.

The following BOS Members have attended the Meeting:

1.	Dr.Yogesh Madaria	Assoc. Prof & Head-ME	Chairman-BOS
	<b>Dr. K. Vijay Kumar Reddy</b>	<b>Professor,MED, JNTUHCEH</b>	<b>JNTUH Nominee</b>
3.	Dr. V. Suresh Babu	Professor, ME, NIT Warangal	Subject Expert from outside Parent University
4.	Dr. T. Ram Mohan Rao	Professor and Head, ME, Vasavi College of Engg Hyderabad	Subject Expert from outside Parent University
5.	Dr. N.K. Singh	GM,BHEL-R&D,Hyderabad	Expert from Industry
6.	Dr. K. Mallikarjuna	Professor	Faculty Member
7.	Dr.R.Dharmalingam	Assoc. Professor	Faculty Member
8.	Mr.K.Srinivasa Rao	Assoc. Professor	Faculty Member
9.	Mr. Metpally Saikrishna	HCL, Hyderabad	Alumni (MR15)

The following is the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS Meeting held in A.Y 2018-19
- Discussion and review of M.Tech.(TE) MR18 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.

The Structure and Syllabus for M.Tech MR15 batch have been approved with the following suggestions



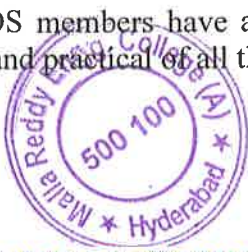
*Ramesh*  
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S.NO	Subject code	Subject name	Change / Modifications suggested
1	83219	ANALYSIS AND SYNTHESIS OF MECHANISMS	<p>MODULE I: Kutzbach's criterion for degree of freedom of plane mechanisms, Gruebler's Criterion,</p> <p>MODULE III: the significance of polode and polode curvature in four bar mechanism</p> <p>Bobbilier's construction for finding inflection point given the centre of curvature of the tracer point and instant centre</p>
2	83220	DESIGN OF HYDRAULIC AND PNEUMATIC COMPONENTS	<p>MODULE I: Sources of Hydraulic power : Pumping Theory – Pump Classification – Construction, Working, Design, Advantages, Disadvantages, Performance, Selection criteria of Linear and Rotary – Fixed and Variable displacement pumps –Problems.</p> <p>MODULE V: Installation, Selection, Maintenance, Trouble Shooting and Remedies in Hydraulic and Pneumatic systems, Design of hydraulic circuits for Drilling, Planning, Shaping, Surface grinding, Press and Forklift applications.</p>

At the outset, Dr.YogeshMadaria, Assoc. Prof., Mech. Dept and Chairman of the M.Tech(Machine Design)- Board of Studies, welcomed the members to the Board of Studies meeting and appraised the purpose of the meeting. He also briefed about the previous BOS meeting, resolutions and placed on record ans modifications for MR18 regulations syllabus. 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 oy all the members of BOS.

**The following resolutions are made after careful discussion and observations.**

1. The BOS Members have thoroughly reviewed and discussed the Scheme of instructions, periods per week, and number of credits for all 2 years of M.Tech (Machine Design) program as per the guidelines of the AICTE and JNTUH, Hyderabad. The BoS has collectively resolved to implement this scheme of Instructions, periods per week and number of credits for all 2 years of M.Tech (Machine Design) Program from the Academic year 2019-20 onwards. The devised scheme of instructions and other items have been given in Annexure-I.
2. After formulation of scheme of Instructions, the BoS has reviewed and devised the syllabus for M.Tech (Machine Design) Course as per the guide lines of the AICTE and JNTUH, Hyderabad.
3. The BOS Members unanimously approved to use the following Open Source software for execution of programmes in the respective laboratories.OpenFOAM, SU2, QCAD, SALOME and SCILAB,.
4. 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 (Machine Design) Course.



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5. The BOS has also resolved for delegation of power to the Chairman of BOS for inclusion/exclusion/modification of any of the above item as per the requirements.


Some suggestions for minor revision of syllabus were made by the members of the Board of studies. On discussion, it was decided to implement those revision from next regulation i.e. from July 2020.

Finally, Dr. Yogesh Madaria, Chairman – M.Tech (Machine Design) Board of Studies has expressed his sincere thanks to all the Members of the Board of studies for their active participation and contribution. The meeting concluded at 1:00 PM.

  
Chairman-BOS

Copy to  
The Chairman of Academic Council & Principal, MREC  
All the Members of BOS



  
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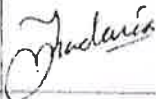





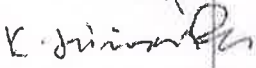
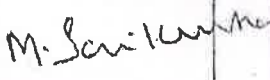
## MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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### Department of Mechanical Engineering

The Board of Studies meeting for M.Tech. (MD) (PG Programme) is held in the conference hall, Malla Reddy Engineering College.

The following members have attended to review on matters such as Schema, Syllabus of MR18 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.Yogesh Madaria	Assoc.Professor & Head-ME	Chairman-BOS	
2.	Dr.K.Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	
3.	Dr.V.Suresh Babu	Prof, ME, NIT Warangal	Subject Expert Member	
4.	Dr. T. Ram Mohan Rao	Professor and Head, ME, Vasavi College of Engg Hyderabad	Subject Expert Member	
5.	Dr. N. K. Singh	General Manager (Mechanical) BHEL Corporate R & D Division, Hyderabad	Expert Member from Industry	
6.	Dr. R. Dharmalingam	Assoc. Professor	Faculty Member	
7.	Dr. K. Mallikarjuna	Professor	Faculty Member	
8.	Mr. K Srinivasa Rao	Assoc. Professor	Faculty Member	
9.	Mr. Metpally Saikrishna	Opti Design Solutions Hyderabad	Alumni	



  
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# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100.

Department of Mechanical Engineering

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

December 20<sup>th</sup>, 2018

The action taken report for the 9<sup>th</sup> Board of studies meeting for the M.Tech (Machine Design) - BoS conducted on 02-07-2018 at 10:30 AM in the Department of mechanical engineering, Malla Reddy Engineering College (Autonomous), Hyderabad is follows

**Resolution 1:** Mechanical Vibration subject should be changed from Professional elective to Core Course, as well as include V.P.Singh and Groover books.

**Action Taken:** Mechanical Vibration subject is changed from Professional elective to Core Course and also the V.P.Singh and Groover books also included

**Resolution 2:** The committee suggested to include Tool design subject as core subject.

**Action Taken:** Tool design subject is included as core subject.

**Resolution 3:** Industrial Robotics may be shifted to IInd semester.

**Action Taken:** Industrial Robotics is included in the to second semester.

**Resolution 4:** The members suggested that the Numerical Methods subject may transferred from Core to Elective.

**Action Taken:** The Numerical Methods subject is transferred from Core to Elective.

**Resolution 5:** Nano materials syllabus may be revised in relevance with the Design and manufacturing applications. If not possible removed/ replaced with any one Design related contemporary subjects.

**Action Taken:** : Nano materials syllabus is revised in relevance with the Design and manufacturing applications.

**Resolution 6:** Advanced FEA may be verified thoroughly (like introduction to plates and shells). One of the text book FEA by Jalaludhin may be included.

**Action Taken:** Advanced FEA may be verified thoroughly (like introduction to plates and shells). One of the text book FEA by Jalaludhin may be included.

**Resolution 7:** The text books mentioned should be of the recent editions



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**Action Taken:** The recent text books added in the every subjects

**Resolution 8:** Hand books should be placed in the reference section instead of placing in the text books.

**Action Taken:** Hand books which present in the text book are transferred to reference section.

**Resolution 9:** Course outcomes should be coherence with the syllabus contents.

**Action Taken:** Course outcomes are verified and corrected in coherence with the syllabus contents.

**Resolution 10:** The overall language and typographical errors need to be thoroughly checked and corrected.

**Action Taken:** The overall language and typographical errors are thoroughly checked and corrected.

  
**BoS Chairman**



  
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# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100.

Department of Mechanical Engineering

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

June 28<sup>th</sup>, 2018

The 10<sup>th</sup> Board of studies meeting for the M.Tech (Thermal Engg) - BoS is conducted on 28-06-2018 at 10:30 AM in the conference hall, Department of Mechanical Engineering Malla Reddy Engineering College (Autonomous), Hyderabad.

The following BoS Members have attended the Meeting:

1. Dr. Yogesh Madaria	Assoc. Prof & Head, MED,MREC(A)	Chairman-BOS
2. Dr. K.Vijay Kumar Reddy	Professor, MED, JNTUH CEH	JNTUH Nominee
3. Dr. Morapakala Srinivas	Assoc Prof, MED. BITS, Hyderabad	Subject Expert
4. Dr.Narasimhulu Sanke	Prof, MED, Osmania University	Subject Expert
5. Dr.N.K Singh	GM,BHEL-R&D, Hyderabad	Expert Member
6. Dr. M. Vijay Kumar	Assoc. Prof, ME, MREC(A)	Faculty Member
7. Dr. Shaik Hussain	Assoc. Professor, MED, MREC(A)	Faculty Member
8. Mr.P.Praveen Babu	Asst. Professor MED,MREC(A)	Faculty Member
9. Mr. V. Raja Ravi Teja	Sim Tech Simulations Hyderabad	Alumni (MR15)

The following is the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS (9<sup>th</sup> BoS) Meeting held in A.Y 2018-19
- Discussion and review of M.Tech.(TE) MR18 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.
- The Structure and Syllabus for M.Tech MR18 batch have been approved with the following suggestions

S.NO	Subject code	Subject name	Change / Modifications suggested
1	83101	ADVANCED THERMODYNAMICS & COMBUSTION	Module II: Transient flow analysis, Second law of thermodynamics, Entropy, Availability and



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			unavailability, Thermodynamic potential. Module IV: COMBUSTION: Combustion Reactions, Enthalpy of formation. Entropy of formation, Reference levels of tables
2	83113	ADVANCED FINITE ELEMENT ANALYSIS	Module I: Strong and weak forms, Galerkin and weighted residual methods, calculus of variations, Essential and natural boundary conditions. Module IV: Finite elements in Structural Analysis: Static and dynamic analysis, eigen value problems, and their solution methods,

At the outset, Dr. Yogesh Madaria, Assoc. Prof., Mech. Dept and Chairman of the M.Tech (Thermal Engineering) - Board of Studies, welcomed the members to the Board of Studies meeting and appraised the purpose of the meeting. He also briefed about the previous BOS meeting, resolutions and placed on record and modifications for MR18 regulations syllabus. 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 resolutions are made after careful discussion and observations.**

1. The BOS Members have thoroughly reviewed and discussed the Scheme of instructions, periods per week, and number of credits for all 2 years of M.Tech (Thermal Engineering) course as per the guide lines of the AICTE and JNTUH, Hyderabad. The BoS has collectively resolved to implement this scheme of Instructions, periods per week and number of credits for all 2 years of M.Tech (Thermal Engineering) Course from the academic year 2018-19 onwards. The devised scheme of instructions and other items have been given in Annexure-I.
2. After formulation of scheme of Instructions, the BoS has reviewed and devised the syllabus for M.Tech(Thermal Engineering) Course as per the guide lines of the AICTE and JNTUH, Hyderabad.

Finally, Dr.T.Ramachandran, Chairman – M.Tech (Thermal Engineering) Board of Studies has expressed his sincere thanks to all the Members of the Board of studies for their active participation and contribution. The meeting concluded at 1:00 PM.



*Ravish*  
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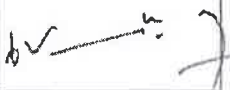


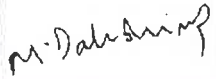



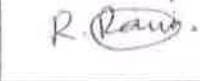
*T. Ram*  
Chairman, BOS

# MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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## Department of Mechanical Engineering

The BoS meeting is held on 28.06.2018 and the following members have attended for finalization of Schema, Syllabus and other parts as per Agenda for MR18 Regulations(students admitting from AY 2018-19 onwards) for M.Tech ( Thermal Engineering) programme.

Sl. No	Name of the Member	Designation & Official Address	Status BoS	Signature
1.	Dr.S Sudhakara Reddy	Principal, MREC(A)	Special Invitee	
2.	Dr. T.Ramachandran	Professor ME,MREC(A)	Chairman-BOS	
3.	Dr.K.Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	
4.	Dr. Morapakala Srinivas	Assoc. Prof, ME, Birla Institute of Technology & Science.	Subject Expert Member	
5.	Dr.Narsimhulu Sanke	Professor ME-UCE(A), Osmania University.	Subject Expert Member	
6.	Sri. M Dakshina Murty	AGM,BHEL-R&D, Hyderabad	Expert Member from Industry	
7.	Mr. V Narasimha Reddy	Assoc. Prof, ME, MREC(A)	Faculty Member	
8.	Dr.S.Gunasekharan	Professor and Head, ME, MREC(A)	Faculty Member	
9.	Mr.Shaik Hussain	Assoc. Professor, ME, MREC(A)	Faculty Member	
10.	Mr. V. Raja Ravi Teja	Sim tech Simulations Hyderabad	Alumni	



**Raveesh**  
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# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

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Department of Mechanical Engineering

## Minutes of meeting M.Tech(ThermalEngg) - BoS

December 20<sup>th</sup>, 2018

The Board of studies meeting for the M.Tech (ThermalEngg) - BoS is conducted on 20-12-2018 at 10:30 AM in the Conference Hall, Malla Reddy Engineering College (Autonomous), Secunderabad.

The following BoS Members have attended the Meeting:

1.	Dr.Yogesh Madaria	Assoc. Prof & Head-ME	Chairman-BOS
2.	Dr. K. Vijay Kumar Reddy	Professor,MED, JNTUHCEH	JNTUH Nominee
3.	Dr. Morapakala Srinivas	Assoc Prof, MED, BITS, Hyderabad	Subject Expert from outside Parent University
4.	Dr. Narsimhulu Sanke	Professor, ME, UCE, Osmania University	Subject Expert from outside Parent University
5.	Dr. N.K. Singh	GM,BHEL-R&D,Hyderabad	Expert from Industry
6.	Dr. M. Vijay Kumar	Assoc. Professor	Faculty Member
7.	Dr. Shaik Hussain	Assoc. Professor	Faculty Member
8.	Mr.P.Praveen Babu	Asst. Professor	Faculty Member
9.	Mr. V. Raja Ravi Teja	Sim Tech Simulations, Hyderabad	Alumni Representative (MR 15)

The following is the agenda for the meeting.

- Action Taken Report (ATR) on previous BoS Meeting held in A.Y 2018-19
- Discussion and review of M.Tech.(TE) MR18 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.



*R. Suresh*  
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The Structure and Syllabus for M.Tech MR18 batch have been approved with the following suggestions

S.NO	Subject code	Subject name	Change / Modifications suggested
1	83120	JET PROPULSION & ROCKET ENGINEERING	<p><b>Module I</b> : PRINCIPLES OF JET PROPULSION AND ROCKETRY: Fundamentals of jet propulsion, Rockets and air breathing jet engines</p> <p><b>Module IV</b> Solid Propulsion System: Solid propellants – classification, homogeneous and heterogeneous propellants, double base propellant compositions and manufacturing methods</p>
2	83124	NEW & RENEWABLE ENERGY SOURCES	<p><b>Module I:</b> Introduction, Classification of Energy Resources; Conventional Energy Resources - Availability and their limitations; Non-Conventional Energy Resources .</p> <p><b>Module IV</b> : EMERGING TECHNOLOGIES: Fuel Cell, Small Hydro Resources, Hydrogen Energy, alcohol energy, nuclear fusion and power from satellite station</p>

At the outset, Dr. Yogesh Madaria, Assoc. Prof., Mech. Dept and Chairman of the M.Tech(Thermal Engineering)- Board of Studies, welcomed the members to the Board of Studies meeting and appraised the purpose of the meeting. He also briefed about the previous BOS meeting, resolutions and placed on record and modifications for MR18 regulations syllabus. 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 resolutions are made after careful discussion and observations.**

1. The BOS Members have thoroughly reviewed and discussed the Scheme of instructions, periods per week, and number of credits for all 2 years of M.Tech (Thermal Engineering) program as per the guide lines of the AICTE and JNTUH, Hyderabad. The BoS has collectively resolved to implement this scheme of Instructions, periods per week and number of credits for all 2 years of M.Tech (Thermal Engineering) program from the academic year 2019-20 onwards. The revised scheme of instructions and other items have been given in Annexure-I.



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2. The BoS members made required modifications on the scheme of instructions and also reviewed and revised at the necessary places in the syllabus of M.Tech (Thermal Engineering) program as per the guide lines of the AICTE and JNTUH, Hyderabad.
3. 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 (Thermal Engineering) Program.
4. The BOS has also resolved for delegation of power to the Chairman of BOS for inclusion/exclusion/modification of any of the above item as per the requirements.

Some suggestions for minor revision of syllabus were made by the members of the Board of studies. On discussion, it was decided to implement those revision from next regulation i.e. from July 2020.

Finally, Dr. Yogesh Madaria, Chairman –M.Tech (Thermal Engineering)Board of Studies has expressed his sincere thanks to all the Members of the Board of studies for their active participation and contribution. The meeting concluded at 1:00 PM.

  
Chairman-BOS

Copy to  
The Chairman of Academic Council &Principal ,MREC  
All the Members of BOS



  
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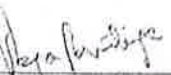
# MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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## Department of Mechanical Engineering

The Board of Studies meeting for M.Tech. (TE) (PG Programme) is held in the conference hall, Malla Reddy Engineering College.

The following members have attended to review on matters such as Schema, Syllabus of MR18 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.Yogesh Madaria	Assoc.Professor & Head-ME	Chairman-BOS	
2.	Dr.K.Vijay Kumar Reddy	Professor, ME, JNTUH CEH	JNTUH Nominee	
3.	Dr. Morapakala Srinivas	Assoc. Prof, ME, Birla Institute of Technology & Science.	Subject Expert Member	
4.	Dr.Narsimhulu Sanke	Professor ME-UCE(A), Osmania University.	Subject Expert Member	
5.	Dr. N. K. Singh	General Manager (Mechanical) BHEL Corporate R & D Division, Hyderabad	Expert Member from Industry	
6.	Dr. M. Vijay Kumar	Assoc. Professor	Subject Expert Member	
7.	Dr. Shaik Hussain	Assoc. Professor	Subject Expert Member	
8.	Mr.P.Praveen Babu	Asst. Prof	Subject Expert Member	
9.	Mr. V. Raja Ravi Teja	Sim tech.Simulations Hyderabad	Alumni	



  
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# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100.

Department of Mechanical Engineering

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

December 20<sup>th</sup>, 2018

The action taken report for the 9<sup>th</sup>Board of studies meeting for the M.Tech (Thermal Engineering) - BoS conducted on 02-07-2018 at 10:30 AM for in the Department of mechanical engineering, Malla Reddy Engineering College (Autonomous), Hyderabad is follows

**Resolution 1:** Nano Technology and Nano materials syllabus may be revised in relevance with the thermal applications. If not possible removed/ replaced with any one thermal related contemporary subjects.

**Action Taken:** Nano Technology and Nano materials syllabus are revised in relevance with the thermal applications

**Resolution 2:** The text books mentioned should be of the recent editions

**Action Taken:** The recent text books added in the every subjects.

**Resolution 3:** Not more than 2 books should be given in the text books. If the syllabus is covered by a single book then only one book may be given.

**Action Taken:** Maximum two books are given for the textbooks.

**Resolution 4:** Hand books should be placed in the reference section instead placing in the text books.

**Action Taken:** Hand books are transferred to the reference section instead placing in the text books.

**Resolution 5:** Course outcomes should be coherence with the syllabus contents.

**Action Taken:** Course outcomes are verified and corrected in coherence with the syllabus contents.

**Resolution 6:** The overall language and typographical errors need to be thoroughly checked and corrected.

**Action Taken:** The overall language and typographical errors are thoroughly checked and corrected.



*Raveesh*  
PRINCIPAL  
BoS Chairman  
Malla Reddy Engineering College  
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