



Malla Reddy Engineering College

(AUTONOMOUS)

(An Autonomous Institution approved by UGC and affiliated to JNTUH Hyderabad Accredited by NAAC with 'A' Grade)
Accredited by NBA of AICTE & Recipient of World Bank Assistance under TEQIP Phase - II, S.C 1.1)

ORDER

Date: 21/06/2018

The EEE UG – Board of Studies for the Academic Year 2018-19 have been reconstituted as per the UGC guidelines.

S. No	Name of the Member	Designation & Official Address	Subject Specialization	Contact No.	E-mail	Category
1	Dr.S. Sudhakara Reddy	Principal, MREC(A)	Mechanical Engineering	9348161125	principal@mrec.ac.in	Special Invitee
2.	Dr. N.Rajeswaran	Professor & Head, Dept. of EEE	Applied Electronics	7382211597	eeehod@mrec.ac.in	Chairman- BoS
3	Dr. M.Surya Kalavathi	Professor, EEE JNTUH.	Power Systems	9440763393	munagala12@jntuh.ac.in	Subject Expert Member (External)
4	Dr.G.Yesuratnam	Professor, EEE, OU	Power Systems	9963905932	ratnamgy2003@gmail.com	Subject Expert Member (External)
5	Dr. D. M. Vinod Kumar	Professor, NIT, Warangal.	Power Systems	9885294521	dmvk@nitw.ac.in vinodkumar.dm@gmail.com	Subject Expert Member (External)
6	Dr.M.Mohan Rao	Addl. General Manager (GSG, I & Projects), BHEL, Hyderabad	Power Systems	9441286642	mmrao@bhel.in	Industry Expert
7	Dr. T. Rajesh	Professor, Dept of EEE, MREC(A)	Power Systems Engineering	9942988173	rajeshpradha@gmail.com	Faculty (Member)
8	Mr. P. Kamalakar	Assoc. Professor, Dept of EEE, MREC(A)	Power Electronics	9985313683	kamalakar.mrecccc@gmail.com	Faculty (Member)
9	Mr.Ch.Narendra Kumar	Assoc. Professor, Dept of EEE, MREC(A)	Power Electronics and Drives	9494235531	chnkeee@gmail.com	Faculty (Member)
10	Dr.P.Anantha Babu	Assoc. Professor, Dept of EEE, MREC(A)	Control Systems			Faculty (Member)
11	Mr.K.Ajay Kumar	Technical Officer-C, AP&SD, ECIL, Hyderabad	Electrical Power Systems	9493687932	ajaykomarabathini@gmail.com	Alumni (MR15)

Dr. S. Sudhakara Reddy
Principal

PRINCIPAL

Malla Reddy Engineering College
(Autonomous)

Maisammaguda, Dhulapally

(Post Box No. 500 100)



Maisammaguda, Dhulapally (Post Box No. 500 100)

Email: principal@mrec.ac.in

MALLA REDDY ENGINEERING COLLEGE (Autonomous)

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

Department of Electrical and Electronics Engineering

Minutes of meeting EEE (UG) - BOS

Date : 03/07/2018

The 9th Board of studies meeting for the EEE (UG) - BOS is conducted on 03-07-2018 at 10:30 AM in the conference hall, Malla Reddy Engineering College (Autonomous), Hyderabad.

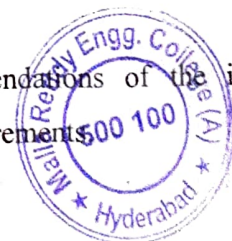
The following BOS Members have attended the Meeting:

1	Dr. N.Rajeswaran	Professor & Head, Dept. of EEE	Chairman- BOS
2	Dr. M.SuryaKalavathi	Professor, EEE,JNTUH	University Nominee
3	Dr.G.Yesuratnam	Professor, EEE,OU	Subject Expert Member
4	Dr. D. M. Vinod Kumar	Professor, NIT, Warangal.	Subject Expert Member
5	Dr.M.Mohan Rao	Deputy General Manager, R&D (GIS & HVE)	IndustryExpert
6	Dr. T. Rajesh	Professor, Dept of EEE, MREC(A)	Faculty (Member)
7	Mr. P. Kamalakar	Associate Professor, Dept. of EEE, MREC(A)	Faculty (Member)
8	Mr.Ch.Narendra Kumar	Assoc. Professor , Dept of EEE, MREC(A)	Faculty (Member)
9	Dr. P.Ananthababu	Assoc. Professor, Dept of EEE, MREC(A)	Faculty (Member)
10	Mr.K.Ajay Kumar	Technical Officer-C, AP&SD, ECIL, Hyderabad	Alumni (MR15)

The following is the agenda for the meeting.

1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2018-19
2. Discussion and review of B. Tech. (EEE) MR18 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 and approval of open source softwares'.
5. Suggest methodologies for innovative teaching and evaluation techniques.
6. Suggestion of any activity related to research, teaching, extension and other academic activities in the department/college.
7. Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the for inclusion and exclusion of any item as per requirements.
8. Approval of any other item with the permission of the Chairman.

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

Year	Semester	Name of the Subject	Modifications Suggested
I	I	Basic Electrical & Electronics Engineering	<p>Module I: DC Circuits Superposition, Thevenin's and Maximum Power Transfer Theorems with DC excitation. Module III: Introduction to Electrical Machines A: DC Machines : Construction & Principle of Operation of DC Generators – E.M.F Equation. Principle of operation DC Motors – Back E.M.F. - Torque equation – Brake Test - Characteristics. B: AC Machines: Construction and Principle of operation of Transformer- EMF Equation. Construction and Principle of Operation of 3 Phase Induction Motors - Brake test on 3-Phase Induction Motor – Applications. Module V: BJT and Junction Field Effect Transistor (JFET) 1 Bipolar Junction Transistor (BJT): Construction, Principle of Operation, Symbol, Amplifying Action, Common Emitter, Common Base and Common Collector configurations and Input-Output Characteristics, Comparison of CE, CB and CC configurations</p> <p>Junction Field Effect Transistor and MOSFET: Construction, Principle of Operation, Symbol, Pinch-Off Voltage, Volt-Ampere Characteristic, Comparison of BJT and FET.</p>
II	I	Electrical Circuit Analysis And Synthesis	<p>MODULE I : Network Theorems and Magnetic Circuits Magnetic Circuits – Faraday's laws of electromagnetic induction – concept of self and mutual inductance – dot convention – coefficient of coupling – composite magnetic circuit - Analysis of series and parallel magnetic circuits. Hysteresis and Eddy currents</p>

10. After formulation of scheme of Instructions, the BOS members reviewed and approved new courses.

The following subjects are introduced for the academic year 2018-19 (MR18).

Subject Code	Subject Name
80223	Graphical Programming and Applications
80402	Signals and Systems
80226	Electrical Machine Design
80445	Basic simulation Lab
80228	Wind and Solar Energy Systems
80229	Electric Hybrid Vehicles
80220	Power systems Lab

At the outset, Dr. N. Rajeswaran, Prof. & HOD and Chairman of the EEE (UG) - Board of Studies, has given a warm welcome to the members present and informed the purpose of the meeting. She also briefed about the previous BOS meeting resolutions and placed on record the existing syllabus of MR17 regulations and also proposed modifications for MR18 regulations syllabus (Batches admitting from 2018-19 onwards). Later Board of studies Members has detailed discussion, reviewed each item of the proposed agenda and finally the following items have been resolved unanimously by all the members of BOS to implement from the academic year 2018-19 and onwards.

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 4 years of B.Tech. (EEE) Course as per the guide lines of the AICTE and JNTUH, Hyderabad. The BOS has collectively resolved to implement this schema of Instructions, periods per week and number of credits for all 4 years of B.Tech. (EEE) Courses from the academic year 2018-19 onwards. The devised schema of instructions and other items have been given in Annexure-I.
2. After formulation of schema of Instructions, the BOS has reviewed and devised the syllabus for B.Tech. (EEE) Course as per the guide lines of the AICTE and JNTUH, Hyderabad.
3. The BOS has discussed and framed the syllabus of the B.Tech. subjects offered to the other Engineering branches namely B.Tech.(ECE) and B.Tech.(Min. E) as per the guidelines of the AICTE & JNTUH, Hyderabad and resolved to implement from the academic year 2018-19 onwards.
4. The BOS Members unanimously approved to use the following Open Source softwares for execution of programmes in the respective laboratories.

S.No.	Name of the Laboratory	Name of the Experiments	Open Source Software Suggested
1.	Electrical Circuits Lab	<ol style="list-style-type: none"> 1. Determination of branch currents in a given electrical circuit. 2. Determination of node voltages of a given electrical network. 3. Determination of transient response of a given RL & RC Circuit. 4. Determination of load current and voltage for a given electrical Network. 	Multi Sim/Scilab
2.	Control Systems Lab	<ol style="list-style-type: none"> 1. Stability analysis (Bode, Root Locus, Nyquist) of Linear Time Invariant system. 2. State space model for classical transfer function. 	Scilab
3.	Power Electronics Lab	Simulation of single-phase full converter using RLE loads and single-phase AC voltage controller using RLE loads.	Multi Sim

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.(EEE) Course.
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.
7. 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.

The following approvals were made by the members of the Board of studies.

- Committee's approved

- To include LabVIEW Programme and Applications
- to include Electrical Machine Design

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Vijaya Vittala, Sec'bad-500 100





- to include Wind and Solar Energy Systems and Electrical and Hybrid Vehicles

The following suggestions were made by the members of the Board of studies.

- University Nominee, Dr. M.Surya Kalavathi has suggested to include advanced topics and application oriented wherever is required.

Finally, Dr. N.Rajeswaran –EEE(UG)Board of Studieshas expressed his sincere thanks to all the Members of the Board of studies for their active participation and valuable suggestions.The meeting concluded at 1:30 PM.


Dr. N.Rajeswaran
Chairman, EEE(UG) - BOS


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ORDER

Date: 21/06/2018

The EEE PG – Board of Studies for the Academic Year 2018-19 have been reconstituted as per the UGC guidelines.

S. No	Name of the Member	Designation & Official Address	Subject Specialization	Contact No.	E-mail	Category
1	Dr.S. Sudhakara Reddy	Principal, MREC(A)	Mechanical Engineering	9348161125	principal@mrec.ac.in	Special Invitee
2.	Dr. N.Rajeswaran	Professor & Head, Dept. of EEE	Applied Electronics	7382211597	eeehod@mrec.ac.in	Chairman- BoS
3	Dr. M.Surya Kalavathi	Professor, EEE JNTUH.	Power Systems	9440763393	munagala12@jntuh.ac.in	Subject Expert Member (External)
4	Dr.G.Yesuratnam	Professor, EEE, OU	Power Systems	9963905932	ratnamgy2003@gmail.com	Subject Expert Member (External)
5	Dr. D. M. Vinod Kumar	Professor, NIT, Warangal.	Power Systems	9885294521	dmvk@nitw.ac.in vinodkumar.dm@gmail.com	Subject Expert Member (External)
6	Dr.M.Mohan Rao	Addl. General Manager (GSG, I & Projects), BHEL, Hyderabad	Power Systems	9441286642	mmrao@bhel.in	Industry Expert
7	Dr. T. Rajesh	Professor, Dept of EEE, MREC(A)	Power Systems Engineering	9942988173	rajeshpradha@gmail.com	Faculty (Member)
8	Mr. P. Kamalakar	Assoc. Professor, Dept of EEE, MREC(A)	Power Electronics	9985313683	kamalakar.mrecee@gmail.com	Faculty (Member)
9	Mr.Ch.Narendra Kumar	Assoc. Professor, Dept of EEE, MREC(A)	Power Electronics and Drives	9494235531	chnkeee@gmail.com	Faculty (Member)
10	Dr.P.Anantha Babu	Assoc. Professor, Dept of EEE, MREC(A)	Control Systems			Faculty (Member)
11	Mr.K,Ajay Kumar	Technical Officer-C, AP&SD, ECIL, Hyderabad	Electrical Power Systems	9493687932	ajaykomarabathini@gmail.com	Alumni (MR15)

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Principal

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Email: principal@mrec.ac.in

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Department of Electrical and Electronics Engineering

Minutes of meeting EEE (PG) - BOS

Date : 03/07/2018

The 6th Board of studies meeting for the EEE (PG) - BOS is conducted on 03-07-2018 in the conference hall, Malla Reddy Engineering College (Autonomous), Hyderabad.

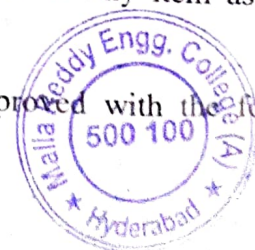
The following BOS Members have attended the Meeting:

1	Dr. N.Rajeswaran	Professor & Head, Dept. of EEE	Chairman- BoS
2	Dr. M.SuryaKalavathi	Professor, EEE,JNTUH	University Nominee
3	Dr.G.Yesuratnam	Professor, EEE,OU	Subject Expert Member (Outside the parent university)
4	Dr. D. M. Vinod Kumar	Professor, NIT, Warangal.	Subject Expert Member (Outside the parent University)
5	Dr.M.Mohan Rao	Deputy General Manager, R&D (GIS & HVE)	Industry Expert
6	Dr. T. Rajesh	Professor, Dept of EEE, MREC(A)	Faculty (Member)
7	Dr. K.Ezhil Vignesh	Associate Professor, Dept of EEE, MREC(A)	Faculty (Member)
8	Dr. D. Raja Reddy	Assistant Professor , Dept of EEE, MREC(A)	Faculty (Member)
9	Mr.T.Sanjeeva Rao	Assoc. Professor , Dept of EEE, MREC(A)	Faculty (Member)
10	Mr.K,Ajay Kumar	Technical Officer-C, AP&SD , ECIL, Hyderabad	Alumni (MR15)

The following is the agenda for the meeting.

1. Discussion and approval of the scheme and Syllabus of M.Tech. – EPS for MR18 Regulations (for Batches starting from Academic Year 2018-19 onwards).
2. Suggestion and approval of Open Source Software for suitable lab experiments
3. Suggestion and approval of panel for Paper setters, Evaluators for both theory and practical examinations.
4. Delegation of power to the Chairman, BOS for inclusion and exclusion of any item as per the requirements.
5. Approval of any other item with the permission of the Chairman.
6. Delegation of power to the Chairman, BOS for inclusion and exclusion of any item as per the requirements.
7. Approval of any other item with the permission of the Chairman.
8. The Structure and Syllabus for M.Tech. MR18 batch have been approved with the following suggestions

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Year	Semester	Name of the Subject	Modifications Suggested
II	I	FLEXABLE AC TRANSMISSION SYSTEMS	MODULE V: Unified Power Flow Controller SSR and its damping Unified Power Flow Controller, Circuit Arrangement, Operation and control of UPFC, Basic Principle of P and Q control, Independent real and reactive power flow control- Applications. Introduction to Interline Power Flow Controller.

9. After formulation of scheme of Instructions, the BOS members reviewed and approved new courses.

The following subjects are introduced for the academic year 2018-19 (MR18).

Subject Code	Subject Name
82402	Economic Operation of Power Systems
82414	Analysis of HVDC Systems
82415	Renewable Energy Systems
82418	Hybrid Electric Vehicles
80H18	Research Methodology and IPR
82404	Advanced Power Systems Lab
80A04	English for Research Paper Writing
82405	Digital Protection of Power System
82419	Restructured Power Systems
82421	Industrial Load Modelling and Control
82409	Power System Protection Lab
80A05	Value Education
82425	Power System Transients
83125	Industrial Safety
81128	Waste to Energy

At the outset, Dr. N.Rajeswaran, Prof. and Chairman of the EEE (PG) - Board of Studies, has given a warm welcome to the members present and informed the purpose of the meeting. He also briefed about the previous BOS meeting resolutions and placed on record the existing syllabus of MR17 regulations and also proposed modifications for MR18 regulations syllabus (Batches admitting from 2018-19 onwards). Later Board of studies Members has detailed discussion; reviewed each item of the proposed agenda and finally the following items have been resolved unanimously by all the members of BOS to implement from the academic year 2018-19 and onwards.

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

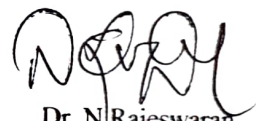
S.No.	Name of the Laboratory	Open Source Software Suggested
1.	Power System Computational Lab - I	Scilab, Spice and Ktechlab
2.	Power System Computational Lab - II	Scilab, Spice and Ktechlab

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.(EPS) Course.
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.


The following suggestions were made by the members of the Board of studies.

- University nominee suggested to remove professional electives which is already offered in UG program and try to include advanced courses.
- Industry expert, Dr. Mohan Rao has suggested to include advanced topics and application oriented wherever is required.

Finally, Dr. N.Rajeswaran – EEE(PG) Board of Studies has expressed his sincere thanks to all the Members of the Board of studies for their active participation and valuable suggestions. The meeting concluded at 3:30 PM.



Dr. N. Rajeswaran
Chairman, EEE(PG) - BOS


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