



# Malla Reddy Engineering College

(An UGC Autonomous Institution approved by AICTE and affiliated to JNTU Hyderabad, Accredited by NAAC with 'A' Grade (II - cycle)  
NBA Accredited Programmes - UG (CE, EEE, ME, ECE & CSE) PG (CE - Structural Engg., EEE-Electrical Power Systems, ME - Thermal Engg.).

## ORDER

Date: 20/11/2019

The ECE UG-Board of Studies for the Academic years 2019-20 and 2020-21 have been reconstituted as per the UGC guidelines.

S. No.	Name of the Member	Designation & Official Address	Subject Specialization	Contact No.	Email ID	Category
1	Dr. Madhu Babu Sikha	Assistant Professor and HoD, Dept. of ECE, MREC (A)	Communication Systems	9042857114	sikha.madhu@gmail.com	Chairman- BOS
2	Dr. D.Srinivasa Rao	Professor, Dept. of ECE, JNTUH CEH, Hyderabad.	Computer Networks	9441189228	dsraoece@jntuh.ac.in	University Nominee (Nominated by the Vice Chancellor, JNTUH, Hyderabad)
3	Dr. B. Rajendra Naik	Professor, Dept. of ECE, OU Hyderabad.	VLSI & Image Processing	9441222226	rajendranaikb@osmania.ac.in	Subject Expert (outside the Parent University) Member
4	Dr. J Ravi Kumar	Professor, Dept. of ECE, NITW	Signal processing	8332969363	ravikumar@nitw.ac.in	Subject Expert (outside the Parent University) Member
5	Dr.G.Mallikarjun Rao	Scientist F, RCI	Image processing	9490166665	mallikarjun_rci@yahoo.com	Industry Expert
6	B. Devraj	Team Leader, Accenture Services Pvt.Ltd	Embedded	7799855887	Shalowm.devraj@gmail.com	Industry Expert
7	Mr. Vamsi Kotte	CEO, SYNTIZEN Technologies	Embedded & IoT	8978888299	vamsi@syntizen.com	Industry Expert
8	Dr. T. Swapna	Professor	Embedded Systems	9948195593	swapnathouti@gmail.com	Faculty Member
9	Dr. T.Srinivas Reddy	Associate Professor	Image processing	9492571803	srimer.2014@gmail.com	Faculty Member
10	Dr. Subbu Lakshmi	Associate Professor	VLSI	9843910092	Lakshu.125@gmail.com	Faculty Member
11	Ms. C. Silpa	Associate Professor	Communications	9490421721	srsilpavasu@gmail.com	Faculty Member
12	Mr J. Sunil Kumar	Assistant Professor	Systems and Signal Processing	7032677567	kmrsja@gmail.com	Faculty Member (Internal)
13	Mr. Bhalky Shiva kumar	Hardware Application Engineer, Unistring Tech Solutions	Embedded Systems	7396110499	shivakumarnkd@gmail.com	Alumni (MR16 Batch)

*Ram*  
Principal

Malla Reddy Engineering College  
(Autonomous)  
Maisammaguda, Dhulapally.



# MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

Maisammaguda, Dhullapally (post via Kompally) Secunderabad-500100

## Department of Electronics & Communication Engineering

Date:20.11.2019

### CIRCULAR

The Board of Studies meeting for the Department of Electronics & Communication Engineering is scheduled on **30.11.2019** at 10.00 AM in the Department conference hall, Mall Reddy Engineering College (Autonomous), Hyderabad. All the BoS members are requested to attend meeting .

HOD ECE

**HEAD, Dept. Of ECE**  
**Malla Reddy Engg. College**  
**Maisammaguda, Dhullapally,**  
**Secunderabad**



# MALLA REDDY ENGINEERING COLLEGE

(Autonomous)




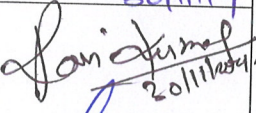
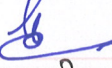

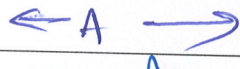
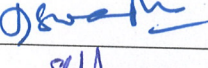
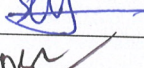
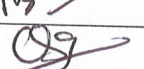
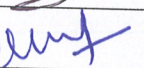
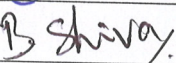

Maisammaguda, Dhullapally (post via Kompally) Secunderabad-500100

## Department of Electronics & Communication Engineering

Date: 30-11-2019

The Board of Studies meeting for the Department of Electronics & Communication Engineering is convened on 30.11.2019 at 10.00 AM in the Department conference hall, Mall Reddy Engineering College (Autonomous), Hyderabad.

The following members have attended to review on matters such as Schema, Syllabus of MR18 regulations (4 Year B.Tech (ECE) Course) and other points as per agenda.

S. No.	Name of the Member	Designation & Official Address	Category	Signature
1	Dr. Madhu Babu Sikha	Assistant Professor and HoD, Dept. of ECE, MREC (A)	Chairman- BOS	
2	Dr. D.Srinivasa Rao	Professor, Dept. of ECE, JNTUH CEH, Hyderabad.	University Nominee (Nominated by the Vice Chancellor, JNTUH, Hyderabad)	
3	Dr. B. Rajendra Naik	Professor, Dept. of ECE, OU Hyderabad.	Subject Expert (outside the Parent University) Member	 30/11/19
4	Dr. J Ravi Kumar	Associate Professor, Dept. of ECE, NITW	Subject Expert (outside the Parent University) Member	 30/11/2019
5	Dr.G.Mallikarjun Rao	Scientist F, RCI	Industry Expert	
6	B. Devraj	Team Leader, Accenture Services Pvt. Ltd	Industry Expert	
7	Mr. Vamsi Kotte	CEO, SYNTIZEN Technologies	Industry Expert	
8	Dr. T. Swapna	Professor	Faculty Member	
9	Dr. T.Srinivas Reddy	Associate Professor	Faculty Member	
10	Dr. N. Subbu Lakshmi	Associate Professor	Faculty Member	
11	Ms. C. Silpa	Associate Professor	Faculty Member	
12	Mr J. Sunil Kumar	Assistant Professor	Faculty Member (Internal)	
13	Mr. Bhalky Shiva kumar	Hardware Application Engineer, Unistring Tech Solutions	Alumni (MR16 Batch)	





# MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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

## Department of Electronics and Communication Engineering

Board of Studies meeting held on 30.11.2019 at 10:00 AM

### AGENDA

The 12<sup>th</sup> Board of Studies meeting for the Department of Electronics and Communication Engineering is convened on 30.11.2019 at 10:00 AM in the Conference Hall, Mall Reddy Engineering College (Autonomous), Hyderabad.

The Agenda of the meeting is as follows.

1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2019-20 on 21.06.2019.
2. Discussion and review of B. Tech. (ECE) MR18 regulations III and IV year course schema and syllabus.
3. Suggestion and approval of new mandatory courses in Semester V & VI of MR18 regulations.
4. Suggestion and approval of the Professional Elective and Open Elective Courses for MR18 regulations.
5. Suggestion on finalizing Substitute Subjects for MR15 Regulations students readmitted in MR17 regulations.
6. Suggestion on finalizing of Substitute Subjects for MR17 Regulations students readmitted in MR18 regulations.
7. Approval to pursue PE & OE equivalent NPTEL/MOOCs courses and constitution of credit transfer for the awarding Degree.
8. 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.

*[Handwritten signatures and initials of the Board of Studies members]*

*[Signature]*  
HOD-ECE

**HEAD, Dept. Of ECE**  
**Malla Reddy Engg. College**  
**Maisammaguda, Dhulapally,**  
**Secunderabad**

*[Signature]*  
B. Shiva

# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

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

Department of Electronics and Communication Engineering

## Minutes of Meeting B. Tech (ECE) - BOS

November 30, 2019

The 12<sup>th</sup> Board of Studies meeting for the B. Tech (ECE) - BOS was conducted on 30<sup>th</sup> November 2019 at 10:00 A.M. in the conference hall, Malla Reddy Engineering College (Autonomous), Hyderabad.

The following BOS members have attended the meeting:

1	Dr. Madhu Babu Sikha	Assistant Professor and HoD, Dept. of ECE, MREC (A)	Chairman- BOS
2	Dr. D.Srinivasa Rao	Professor, Dept. of ECE, JNTUH CEH, Hyderabad.	University Nominee (Nominated by the Vice Chancellor, JNTUH, Hyderabad)
3	Dr. B. Rajendra Naik	Professor, Dept. of ECE, OU Hyderabad.	Subject Expert (outside the Parent University) Member
4	Dr. J Ravi Kumar	Professor, Dept. of ECE, NITW	Subject Expert (outside the Parent University) Member
5	Dr.G.Mallikarjun Rao	Scientist F, RCI	Industry Expert
6	B. Devraj	Team Leader, Accenture Services Pvt.Ltd	Industry Expert
7	Mr. Vamsi Kotte	CEO, SYNTIZEN Technologies	Industry Expert
8	Dr. T. Swapna	Professor	Faculty Member
9	Dr. T.Srinivas Reddy	Associate Professor	Faculty Member
10	Dr. Subbu Lakshmi	Associate Professor	Faculty Member
11	Ms. C. Silpa	Associate Professor	Faculty Member
12	Mr J. Sunil Kumar	Assistant Professor	Faculty Member (Internal)
13	Mr. Bhalky Shiva kumar	Hardware Application Engineer, Unistring Tech Solutions	Alumni (MR16 Batch)

The following was the agenda for the meeting.

1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2019-20 on 21.06.2019.
2. Discussion and review of B. Tech. (ECE) MR18 regulations III and IV year course schema and syllabus.
3. Suggestion and approval of new mandatory courses in Semester V & VI of MR18 regulations.

4. Suggestion and approval of the Professional Elective and Open Elective Courses for MR18 regulations.
5. Suggestion on finalizing Substitute Subjects for MR15 Regulations students readmitted in MR17 regulations.
6. Suggestion on finalizing of Substitute Subjects for MR17 Regulations students readmitted in MR18 regulations.
7. Approval to pursue PE & OE equivalent NPTEL/MOOCs courses and constitution of credit transfer for the awarding Degree.
8. 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.

At the outset, Dr. S. Madhu Babu, Assoc. Professor, ECE Department and Chairman of the B. Tech (ECE) - 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 proposed modifications for V and VI semesters of MR18 regulations syllabus (applicable to Batches admitted in academic years 2018-19 and 2019-20). Later Board of studies members have 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 for their implementation from the academic year 2020-21 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 (ECE) 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 4 years of B. Tech (ECE) Course from the academic year 2017-18 onwards.
- 2) After formulation of scheme of Instructions, the BOS has reviewed and devised the syllabus for B. Tech (ECE) Course as per the guide lines of the AICTE and JNTUH, Hyderabad.
- 3) The BoS members unanimously approved **to introduce** the following **in MR18 schema**:
  - Quantitative Aptitude-I and Quantitative Aptitude-II courses in Semester V and Semester-VI, respectively.
  - Object Oriented Programming Through Java instead of Indian Constitution in Semester-V
  - Fundamentals of Database Management Systems instead of Essence of Indian Traditional Knowledge in Semester VI of Mr18 schema

4) The BoS members unanimously approved to introduce the following new subjects **in**

**MR18 schema:**

**4 a) Professional / Departmental Electives (PE)**

1 Test and Testability

2 Multimedia & Signal Coding

3 Radio Frequency Circuit Design

4 Television and Video Engineering

5 Artificial Neural Networks

6 Low Power VLSI Design

7 Digital Signal Processors, Architectures & Applications

8 Advanced Programmable Logic Device Architectures

9 Embedded Real Time Operating Systems

10 CPLD And FPGA Architectures And Applications

**4 b) Open Elective**

1 Verilog HDL Programming

2 4G & LTE Systems

3 Micro Electro Mechanical Systems

4 Nano Electronics and Nano Photonics

5 Electronic Navigational Aids



- 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.**

1. Embedded systems course can be changed as fundamentals of embedded system design in open elective.
2. Symbols should not be used for course titles in course structure.
3. Data science with python can be includes as professional elective instead of Fundamentals of machine learning
4. Python programming with data analytics course can be offered as scripting language.
5. In course structure, internship can be mentioned as a note as only in summer of each year.
6. Additional or Equivalent courses for readmitted students can be decided by a committee headed by BoS Chairman and can be offered after getting approval from the parent university

Finally, Dr. Madhu Babu Sikha, Asst. Professor, ECE Department and Chairman of the B. Tech (ECE) - Board of Studies, expressed his sincere thanks to all the members of the Board of Studies for their active participation and contribution. The meeting concluded at 1:30 p.m.

  
Dr. Madhu Babu Sikha

  
Dr. D. Srinivasa Rao

  
Dr. B. Rajendra Naik

  
Dr. J. Ravi Kumar


  
Dr. G. Mallikarjun Rao

  
B. Devraj

  
Mr. Vamsi Kotte

  
Dr. T. Swapna

  
Dr. T. Srinivas Reddy

  
Dr. Subbu Lakshmi

  
Ms. C. Silpa

  
Mr. J. Sunil Kumar

  
Mr. Bhalky Shiva kumar



# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

M. Sreenivasulu Reddy, Dhulapally (Post via Kompally), Secunderabad-500 100.  
Department of Electronics & Communication Engineering

## Action Taken Report (ATR) on previous BoS Meeting held in AY 2019-20

Date: 30-11-2019

The Board of Studies (UG) meeting for AY 2019-20 was held on dated 21<sup>st</sup> June 2019. The following are the resolutions made in the meeting and corresponding actions taken:

1	<b>Resolution</b>	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. (ECE) Course as per the guide lines of the AICTE and JNTUH, Hyderabad. The BOS has collectively approved and resolved to implement this scheme of Instructions, periods per week and number of credits for all 4 years of B.Tech. (ECE) Courses from the academic year 2018-19 onwards.
	<b>Action Taken</b>	The devised scheme of instructions is implemented as MR18 regulation B.Tech. (ECE) course schema of instructions and is implemented from the academic year 2018-19 onwards.
2	<b>Resolution</b>	After formulation of scheme of Instructions, the BOS has reviewed and devised the syllabus for B.Tech. (ECE) Course and approved as per the guide lines of the UGC, AICTE and JNTUH, Hyderabad with 160 credits.
	<b>Action Taken</b>	The devised syllabus is implemented as MR18 regulation B.Tech. (ECE) course syllabus with 160 credits is implemented from the academic year 2018-19 onwards.
	<b>Resolution</b>	The BOS has discussed and framed the syllabus of the B.Tech. subjects offered to the other Engineering branches namely B.Tech.(EEE), B.Tech.(CSE) as per the guide lines of the UGC, AICTE & JNTUH, Hyderabad and approved & resolved to implement from the academic year 2018-19 onwards.
	<b>Action Taken</b>	Syllabus of the B.Tech. Subjects offered to the other Engineering branches namely B.Tech. (EEE), B.Tech.(CSE) is implemented from the academic year 2018-19 onwards.
	<b>Resolution</b>	The BOS Members unanimously approved to use the Open Source software for execution of programs in the respective laboratories.
	<b>Action Taken</b>	The approved Open Source software will be used for execution of programs in the respective laboratories devised in MR18 UG-B.Tech. (ECE).
	<b>Resolution</b>	The BOS members have agreed to suggest a panel for paper setters and valuers/examiners for both theory and practical examinations of B.Tech. (ECE) Course.
	<b>Action Taken</b>	The panel of paper setters and valuers/examiners are implemented for both theory and practical of all the subjects of B.Tech. (ECE) Course.
	<b>Resolution</b>	If any item needs 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.
	<b>Action Taken</b>	Implemented from the academic year 2018-19.

Dr. Madhu Babu Sikha  
Chairman, UG/PG BoS

Dr. D. Srinikasa Rao

Dr. B. Rajendra Naik

Dr. S. Ravi Kumar

Dr. G. Mahipal Rao

B. Devraj

Mr. Vamsi Kotte

Dr. T. Swapna

Dr. T. Srinivas Reddy

Dr. Subbu Lakshmi

Ms. C. Silpa

Mr. J. Sunil Kumar

Mr. Bhalky Shiva kumar

# MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

At: Sattenapalli, Bhatlapally (Via & Post) Kompally, Secunderabad-500100

Department of ELECTRONICS & COMMUNICATION ENGINEERING  
COURSE STRUCTURE for ACADEMIC YEAR 2018-19

## SEMESTER I

S.No	Category	Course Code	Name of the Course	Contact hours/week			Credits
				L	T	P	
			Induction Programme	-	-	-	-
	ENGL	80101	English	3	-	-	3
	BSC	80102	Engineering Mathematics-I	3	1	-	4
	BSC	80102	Applied Physics	3	1	-	4
	BSC	80501	Programming for Problem Solving	3	-	-	3
	BSC	80102	English Language Lab	-	-	2	1
	BSC	80102	Applied Physics Lab	-	-	2	1
	BSC	80501	Programming for Problem Solving Lab	-	-	2	1
	BSC	80503	Engineering workshop	-	-	2	1
			<b>Total</b>	<b>12</b>	<b>2</b>	<b>8</b>	<b>18</b>
			<b>Total contact hours</b>	<b>22</b>			

## SEMESTER II

S.No	Category	Course Code	Name of the Course	Contact hours/week			Credits
				L	T	P	
	BSC	80103	Engineering Mathematics-II	3	1	-	4
	BSC	80103	Engineering Chemistry	3	1	-	4
	BSC	80201	Basic Electrical and Electronics Engineering	3	-	-	3
	BSC	80502	Data Structures	3	-	-	3
	BSC	80104	Engineering Graphics	1	-	2	2
	BSC	80105	Engineering Chemistry Lab	-	-	2	1
	BSC	80202	Basic Electrical and Electronics Engineering Lab	-	-	2	1
	BSC	80504	Data Structures Lab	-	-	2	1
	BSC	80202	Engineering Graphics Lab	-	-	2	1
	AC	80A01	NSS/Sports/Yoga	-	-	3	-
			<b>Total</b>	<b>13</b>	<b>2</b>	<b>13</b>	<b>20</b>
			<b>Total contact hours</b>	<b>28</b>			

Dr. M. Mohan Babu Sekhri

Dr. D. Srinivasa Rao

Dr. B. Rajendra Naik

Dr. J. Ravi Kumar

Dr. G. Mallikarjun Rao

B. Devraj

Mr. Vamsi Kotte

Dr. T. Swapna

Dr. T. Srinivas Reddy

Dr. Subbu Lakshmi

Mr. C. Silpa

Mr. J. Sunil Kumar

Mr. Bhalky Shiva Kumar

### SEMESTER III

S.No	Category	Course Code	Name of the Course	Contact hours/week			Credits
				L	T	P	
1	BSC	80400	Special functions and complex variables	3	-	-	3
2	PCC	80401	Analog Electronics	3	-	-	3
3	PCC	80402	Signals and Systems	2	1	-	3
4	PCC	80403	Digital Electronics	2	1	-	3
5	PCC	80404	Probability Theory and Stochastic Processes	3	1	-	4
6	PCC	80405	Network Theory and Transmission lines	3	-	-	3
7	PCC	80406	Analog Electronics Lab	-	-	2	1
8	PCC	80407	Signals and Stochastic Processes Lab	-	-	2	1
9	MC	80X102	Gender Sensitization	2	-	-	0
10	MC	80X107	Internship-I	-	-	-	0
Total				18	3	4	21
Total contact hours				25			

### SEMESTER IV

S.No	Category	Course Code	Name of the Course	Contact hours/week			Credits
				L	T	P	
1	HS/MC	801104	Engineering Economics and Accountancy	3	-	-	3
2	LSC	80209	Control Systems	3	-	-	3
3	FSC	80408	Electromagnetic Wave Theory	3	-	-	3
4	PCC	80409	Analog & Digital Communications	3	1	-	4
5	PCC	80410	Electronic Circuits & Pulse Circuits	3	1	-	4
6	PCC	80411	Analog & Digital Communications Lab	-	-	2	1
7	PCC	80412	Electronic Circuits & Pulse Circuits Lab	-	-	2	1
8	PCC	80413	Digital Electronics Lab	-	-	2	1
9	MC	80X101	Environmental Science	2	-	-	0
Total				17	2	6	20
Total contact hours				25			

Dr. Madhu Babu Sikha

Dr. D. Srinivasa Rao

Dr. B. Rajendra Naik

Dr. J Ravi Kumar

Dr. G. Manikarajun Rao

Dr. Devraj

Mr. Vamsi Kotte

Dr. T. Swapna

Dr. T.Srinivas Reddy

Dr. Subbu Lakshmi

Ms. C. Silpa

Mr. J. Sunil Kumar

Mr. Bhalky Shiva kumar



### SEMESTER VII

S.No	Category	Course Code	Name of the Course	Contact hours/week			Credits
				L	T	P	
1	HSXIC	801105	Management fundamentals	3	-	-	3
2	PCC	80125	Digital Image Processing	3	-	-	3
3	PCC	80126	Microwave Engineering and Radar Systems	3	-	-	3
			<b>Professional Elective-III</b>				
4	PEC-III	80133	Fundamentals of Machine Learning	3	-	-	3
		80134	Optical Communications				
		80135	Embedded System Design				
			<b>Professional Elective-IV</b>				
5	PEC-IV	80136	Advanced Digital Signal Processing	3	-	-	3
		80137	Wireless Communications				
		80138	Fundamentals of Artificial Intelligence				
6	PCC	80127	Digital Image Processing Lab	-	-	2	1
7	PCC	80128	Microwave Engineering Lab	-	-	2	1
8	PROJ	80P01	Internship-III /Mini project	-	-	-	2
9	PROJ	80P02	Project Stage I	-	-	4	2
Total				15	-	8	21
Total contact hours				23			

### SEMESTER VIII

S.No	Category	Course Code	Name of the Course	Contact hours/week			Credits
				L	T	P	
			<b>Professional Elective-V</b>				
	PEC-V	80439	Internet of Things (IOT) and Applications	3	-	-	3
		80440	ADHOC Wireless Sensor Networks				
		80441	System On Chip Architecture				
			<b>Professional Elective-VI</b>				
	PEC-VI	80442	Advanced Microcontrollers	3	-	-	3
		80443	Satellite Communications				
		80444	Wavelets & Its Applications				
3	OEC-III		<b>Open Elective - III</b>	3	-	-	3
4	PROJ	80P03	Seminar	-	-	2	1
5	PROJ	80P04	Project stage II	-	-	20	10
Total				9	-	22	20
Total contact hours				31			

Dr. Madhu Babu Sridha

Dr. D. Srinivasa Rao

Dr. B. Rajendra Naik

Dr. J Ravi Kumar

Dr. G. Mallikarjun Rao

B. Devraj

Mr. Vamsi Kotte

Dr. T. Swapna

Dr. E.Srinivas Reddy

Dr. Subbu Lakshmi

Ms. C. Silpa

Mr. J. Sunil Kumar

Mr. Bhasky Shiva kumar

### SEMESTER V

S.No.	Category	Course Code	Name of the Course	Contact hours/week			Credits
				L	T	P	
1	PCC	80414	Microprocessors and Microcontrollers	3	-	-	3
2	PCC	80415	Linear & Digital Integrated Circuit Applications	3	1	-	4
3	PCC	80416	Data Communications and Computer Networks	3	-	-	3
Professional Elective-I:				3	-	-	3
4	PEC-I	80429	Advanced Digital Communication				
		80537	Computer Organization and Operating Systems				
		80439	Bio-Medical Electronics				
5	OE-I	Open Elective-I		3	-	-	3
6	LAB	80417	Microprocessors and Microcontroller Lab	-	-	3	1.5
7	PCC	80418	Linear & Digital Integrated Circuit Applications Lab	-	-	3	1.5
8	PCC	80419	Data Communications and Computer Networks Lab	-	-	2	1
9	MR	80M05	Object Oriented Programming Through Java	2	-	-	0
10	MR	80M04	Quantitative Aptitude-I	2	-	-	0
11	AC	80A03	Internship-II	-	-	-	0
Total				19	01	08	20
Total contact hours				28			

### SEMESTER VI

S.No.	Category	Course Code	Name of the Course	Contact hours/week			Credits
				L	T	P	
1	PCC	80120	Digital Signal Processing	3	-	-	3
2	PCC	80121	VLSI Design	3	-	-	3
3	PCC	80122	Antennas and Wave Propagation	3	1	-	4
Professional Elective-II:				3	-	-	3
4	PEC-II	80335	Cellular and Mobile Communications				
		80337	Electronic Measurements and Instrumentation				
		80538	Network Security and Cryptography				
5	OE-II	Open Elective-II		3	-	-	3
6	HSMC	80103	English Communication and Presentation Skills Lab	-	-	2	1
7	PCC	80123	Digital Signal Processing Lab	-	-	3	1.5
8	PCC	80124	VLSI Design Lab	-	-	3	1.5
9	MR	80M03	Fundamentals of Database Management Systems	2	-	-	0
10	MR	80M06	Quantitative Aptitude-II	2	-	-	0
Total				19	1	8	20
Total contact hours				28			

Dr. Madhu Babu Sikha

Dr. D. Srinivas Rao

Dr. B. Rajendra Naik

Dr. J. Ravikumar

Dr. G. Mathikaraju Rao

Dr. P. Prasad

Mr. Yamsi Kotte

Dr. T. Swapna

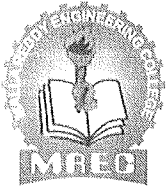
Dr. T. Srinivas Reddy

Dr. Subba Lakshmi

Ms. C. Silpa

Mr. J. Sunil Kumar

Mr. Bhalky Shiva Kumar



# Malla Reddy Engineering College

## (AUTONOMOUS)

(An UGC Autonomous Institution Approved by AICTE and Affiliated to JNTU Hyderabad. Accredited by NAAC with 'A' Grade (II - Cycle))

Lr. No: MREC (A)/BOS-ECE/UG/Nov 2019-20/Invitation/05

28.11.2019

To

**Dr.G.Mallikarjun Rao,**

**Scientist F,**

**RCI, Hyderabad.**

Dear Sir,

Sub: Meeting of the Board of Studies for ECE – UG for the academic year 2019-20: Reg.

It is pleasure to invite you for the meeting of the Board of Studies for the Electronics and Communication Engineering (UG) during the academic year 2019-20. It is scheduled at 10:00 A.M. on 30<sup>th</sup> November 2019 in the department conference hall, Malla Reddy Engineering College (Autonomous).

We request you to make it convenient to attend the meeting.

### AGENDA:

1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2019-20 on 21.06.2019.
2. Discussion and review of B. Tech. (ECE) MR18 regulations III and IV year course schema and syllabus.
3. Suggestion and approval of new mandatory courses in Semester V & VI of MR18 regulations.
4. Suggestion and approval of the Professional Elective and Open Elective Courses for MR18 regulations.
5. Suggestion on finalizing Substitute Subjects for MR15 Regulations students readmitted in MR17 regulations.
6. Suggestion on finalizing of Substitute Subjects for MR17 Regulations students readmitted in MR18 regulations.
7. Approval to pursue PE & OE equivalent NPTEL/MOOCs courses and constitution of credit transfer for the awarding Degree.
8. 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.

Principal

Dr. A. Ramaswami Reddy  
Malla Reddy Engineering College  
(Autonomous)

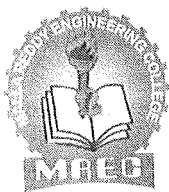
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500 100

Email: [principal@mrec.ac.in](mailto:principal@mrec.ac.in)

[www.mrec.ac.in](http://www.mrec.ac.in)

Maisammaguda, Dhulapally (Post Via Kompally), Secunderabad - 500 100.  
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# Malla Reddy Engineering College

## (AUTONOMOUS)

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28.11.2019

Lr. No: MREC (A)/BOS-ECE/UG/Nov 2019-20/Invitation/06

To

**B. Devraj,**  
**Accenture Services Pvt.Ltd,**  
**Hyderabad.**

Dear Sir,

Sub: Meeting of the Board of Studies for ECE – UG for the academic year 2019-20: Reg.

It is pleasure to invite you for the meeting of the Board of Studies for the Electronics and Communication Engineering (UG) during the academic year 2019-20. It is scheduled at 10:00 A.M. on 30<sup>th</sup> November 2019 in the department conference hall, Malla Reddy Engineering College (Autonomous).

We request you to make it convenient to attend the meeting.

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8. 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.

*(Signature)*  
Principal

Dr. A.Ramaswami Reddy  
**PRINCIPAL**  
**Malla Reddy Engineering College**  
**(Autonomous)**  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500 100.

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