

1.2.2 List of of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

Department of Electrical and Electronics Engineering M.Tech Power & Industrial Drives

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Department of Electrical & Electronics Engineering
Power and Industrial Drives

[Minimum Credits to be earned: 72]

First Semester							
No	Course Code	Course	POs	Periods			
				L	T	P	C
1	16MEX101	Advanced Optimization Techniques		4	-	-	4
2	16PID102	Analysis of Power Electronic Converters		4	-	-	4
3	16PID103	Power Electronic Control of DC Drives		4	-	-	4
4		Elective I		4	-	-	4
5		Elective II		4	-	-	4
6	16PID104	Power Electronic Systems Simulation Lab			-	3	2
7	16PID105	Term Paper			-	-	2
Total				20	-	3	24
Second Semester							
1	16PID201	Electrical Machine Modeling and Analysis		4	-	-	4
2	16PID202	Power Electronics Control of AC Drives		4	-	-	4
3	16PID203	Switched Mode Power Conversion		4	-	-	4
4		Elective III		4	-	-	4
5		Elective IV		4	-	-	4
6	16PID204	Power Electronics and Drives Lab			-	3	2
7	16PID205	Comprehensive Viva			-	-	2
Total				20	-	3	24
Third Semester							
No	Course Code	Course	POs	Periods			
				L	T	P	C
1	16PID301	Internship		-	-	-	4
2	16PID302	Project		-	-	-	-
Total				-	-	-	4
Fourth Semester							
1	16PID302	Project		-	-	-	20

List of Elective Courses

Elective I							
No	Course Code	Course	POs	Periods			
				L	T	P	C
1	16PID001	DSP Applications to Drives		4	-	-	4
2	16PID002	Modern Control Theory		4	-	-	4
3	16PID003	Power Electronic Applications to Power Systems		4	-	-	4
Elective II							
1	16PID004	Power Electronics Applications for Renewable Energy Systems		4	-	-	4
2	16PID005	Power Semiconductor Devices & Protection		4	-	-	4
3	16PID006	Special Machines and Controls		4	-	-	4
Elective III							
1	16PID007	Computer Control of Industrial Drives		4	-	-	4
2	16PID008	Intelligent applications to Electric Drives		4	-	-	4
3	16PID009	PLCs & SCADA		4	-	-	4
Elective IV							
1	16PID010	HVDC Transmission		4	-	-	4
2	16PID011	Modeling & Simulation of Power Electronic Systems		4	-	-	4
3	16PID012	Power Quality Issues & Mitigation		4	-	-	4

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Department of Electrical & Electronics Engineering**6th Board of Studies Meeting**

Date: 21-11-2015

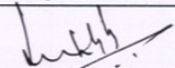
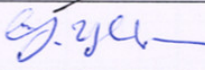
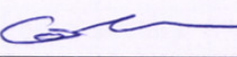
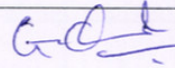
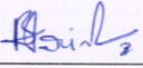
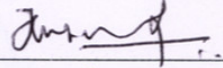

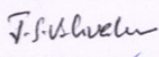
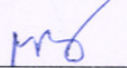

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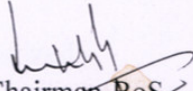
Venue: Simulation Lab

Agenda:

1. Review & Finalization of course structure of PG Programmes under AR16 regulations.
2. Review & Finalization of course titles & content of PG Programmes under AR16 regulations.
3. Review & Revision of continuous assessment & semester end evaluation components under AR16 Regulations.
4. Review & Revision of continuous assessment system for AR16 Regulations.
5. Any other with the permission of the Chairman.

Members Present:

S.No	Name	Designation & Affiliation	Signature
1	Dr. T. Suresh Kumar	Chairman BoS Prof. & Head, Dept. of EEE, GMRIT	
2	Dr. G. Yesuratnam	Professor, EE Dept. Osmania University, Hyderabad	
3	Dr. G V Marutheswar	Professor, EE Dept. SV University, Tirupati	
4	Mr. G. Ravi Kumar (Special Invitee)	Scientist – G, NSTL, Visakhapatnam	← Absent →
5	Dr. G. Chandra Sekhar	Professor, Dept. of EEE, GMRIT	
6	Dr. B. Harish	Assistant Professor, Dept. of EEE, GMRIT	
7	Dr. K.V.S. Prasad	Assistant Professor, Dept. of EEE, GMRIT	
8	Mr. P. Devendra	Associate Professor, Dept. of EEE, GMRIT	
9	Mr. J.S.V. Siva Kumar	Assistant Professor, Dept. of EEE, GMRIT	
10	Mr. M. Rambabu	Assistant Professor, Dept. of EEE, GMRIT	
11	Mr. P. Ramana	Associate Professor, Dept. of EEE, GMRIT Member Secretary	


 Chairman-BoS
 HOD-EEE


Department of Electrical & Electronics Engineering
Minutes of 6th Board of Studies (BOS) Meeting
(UG Courses)

Dte: 21-11-2015

Time: 10.00AM

Venue: Simulation Lab

Members Present:

S.No.	Name & Designation
1	Dr. T.Suresh Kumar- Chairman Bos, Prof& Head, Dept of EEE, GMRIT
2	Dr. G.Yesuratnam- Professor, EEE Dept, Osmania University, Hyderabad
3	Dr. G V Marutheswar- Professor, EEE Dept., S V University, Tirupati
4	Mr. G.Ravi Kumar(Special Invitee)-Scientist-G,NSTL,Visakhapatnam
5	Dr.G.Chandra Sekhar-Professor, Dept of EEE,GMRIT
6	Dr. B.Harish-Assistant Professor, Dept. of EEE, GMRIT
7	Dr. K V S Prasad-Assistant Professor, Dept of EEE, GMRIT
8	Mr. P.Devendra-Associate Professor, Dept. of EEE, GMRIT
9	Mr. J S V Sivakumar-Assistant Professor, Dept. of EEE,GMRIT
10	Mr. M.Rambabu-Assistant Professor, Dept. of EEE,GMRIT
11	Mr. P.Ramana-Associate Professor., Dept of EEE, GMRIT., Member Secretary

1. The course structure and Syllabus for AR-16(UG-All Semesters) were revised and approved with following modifications.
 - a. For all courses text and referee books should be of latest editions. Few more text books and reference books should be added in various subjects.
 - b. Pulse & Digital Circuits subject should be added in 4th or 5th semester.
 - c. Electrical Measurements lab & Control systems labs should be combined into single lab as "Measurements & Control Systems "Lab.
 - d. Digital Electronics lab has to be introduced in 4th or 5th Semester
 - e. Minor modifications in the content of few subjects like Circuit Theory, Electrical Measurements & Instrumentation, Power Electronics are suggested by the board members and they are modified accordingly.
 - f. The course outcomes and objectives of all the courses were reviewed and finalized.
 - g. As per the suggestion from NBA committee visit, the department specific outcomes are discussed and finalized as follows:

PSO 1: Utilize statistics/probability, transform methods, discrete mathematics, complex analysis or applied differential equations in support of electrical/electronic(s) systems.

PSO 2: Analyze, design and implement control, computer, instrumentation or power systems to any problem/application of electrical/electronic (s) engineering.

Department of Electrical & Electronics Engineering

2. The Board members also made suggestions as follows:

- Revise and reduce the syllabus of Microprocessors & Microcontrollers theory subject.
- Complete restructuring of Embedded Systems subject is needed
- The examination for audit course may be kept as optional for the students, as there are no credits for the course.

Dr. T. Suresh Kumar

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Dr. G. Yesuratnam

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Dr. G V Marutheswar

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Mr. G. Ravi Kumar

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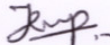
Dr. G. Chandra Sekhar

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Dr. B. Harish

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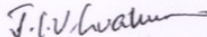
Dr. K.V.S Prasad

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Mr. P. Devendra

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Mr. J.S.V. Siva Kumar

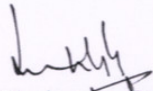
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Mr. M. Rambabu

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Mr. P. Ramana

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Chairman-BoS
MOD-EEE