


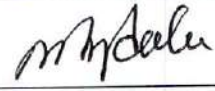







VAAGDEVI COLLEGE OF ENGINEERING
UGC-Autonomous
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 01-07-2018


BOARD OF STUDIES MEETING

Minutes of meeting of Board of studies for Electrical and Electronics Engineering department held on 01-07-2018 at 10:30 a.m.

Sl. No.	Name and Address	Designation	Signature
1	Dr. Y. Hareesh Kumar, Assistant Professor, Department of EEE, VCE, Warangal	Chairman	
2	Dr.M.Sydulu, Professor EE Dept, NIT, Warangal	Member (Subject Expert)	
3	Dr.G.N.Srinivas, Vice Principal JNTUH, Hyderabad	Member (University Nominee)	
4	Dr. K. Prakash, Professor, Department of EEE, VCE, Warangal	Member (Faculty)	
5	Dr.E. Vidya Sagar, Associate Professor EE Dept. Osmania University, Hyderabad	Member (Subject Expert)	
6	Dr. B. Venugopal Reddy Associate Professor, EE, NIT Goa.	Member (Subject Expert)	
7	Sri.Venugopal Reddy, Senior Manager, Electrical Maintenance, NTPC Ramagundam.	Member (Representative from Industry)	
8	Sri.B.Sridhar Raju, A.D.E, TS TRANSCO, Warangal	Member (Representative from Alumni)	
9	Sri. P. Purna Chander Rao, Associate Professor, Department of EEE, VCE, Warangal	Member (Faculty)	
10	Dr. B. Durga Hari Kiran Assistant Professor, Department of EEE, VCE, Warangal	Member (Faculty)	

The following decisions are taken:

1. Approved the course structure of B.Tech. (R18-Regulations) for I, II, III, & IV Year I and II Semesters.
2. Approved the syllabi of B.Tech. (R18-Regulations) for I-Year I and II Semesters.
3. Approved the course structure and Syllabus of M.Tech. (PE and PSCA) of R18-Regulations for I & II Year I and II Semesters.


Dr. Y. Hareesh Kumar
(BOS-Chairman)

VAAGDEVI COLLEGE OF ENGINEERING
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R18 Regulations (w.e.f 2018-2019 A.Y)

IV - Year B.Tech Course Structure as per AICTE Model Curriculum

Semester-I (First Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	B18MA01	Linear Algebra and Calculus	3	1	0	4
2	B18PH01	Applied Physics	4	0	0	4
3	B18EN01	English	2	0	0	2
4	B18CH01	Engineering Chemistry	3	1	0	4
5	B18EN02	English Language and communication skills Lab	0	0	2	1
6	B18PH02	Applied Physics Lab	0	0	3	1.5
7	B18ME02	Engineering Workshop and IT Workshop	0	0	3	1.5
8	B18MCO7	Induction Program				
Total Credits						18

Semester-II (First Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	B18MA03	Differential Equations and Transforms & Vector Calculus	3	1	0	4
2	B18EE01	Electrical Circuits - I	3	1	0	4
3	B18EC01	Electronic Devices and Circuits	3	0	0	3
4	B18CS01	Programming for Problem Solving	4	0	0	4
5	B18EC02	Electronic Devices and Circuits Lab	0	0	2	1
6	B18CS02	Programming for Problem Solving Lab	0	0	2	1
7	B18ME01	Engineering Graphics	1	0	4	3
Total Credits						20

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 (Dr. G. A. Srinivas)

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 (Dr. E. Vidya Sagar)

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 (Dr. M. Sydul)

(Signature)
 (Mrs. P. Purna Chandu Rao)

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 (Dr. Y. Harsh Kumar)

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 (Dr. B. Durga Hari Kiran)

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 (Dr. K. Prakash)

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Semester-III (Second Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	B18EE02	Electrical Circuits – II	3	0	0	3
2	B18MA03	Complex Variables and Vector Calculus <i>Numerical Methods & Calculus</i>	3	1	0	4
3	B18EE08	Power Systems – I	3	0	0	3
4	B18EE03	Electrical Machines-I	3	0	0	3
5	B18EE04	Electromagnetic Fields	3	0	0	3
6	B18CS05	Data Structures Through C++	3	0	0	3
7	B18EE05	Electrical Circuits Lab	0	0	3	1.5
8	B18CS06	Data Structures Through C++ Lab	0	0	3	1.5
9	B18MC03	Environmental Science	2	0	0	0
Total Credits						22

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Semester-IV (Second Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	B18EC46	Pulse Digital and Linear Integrated Circuits	3	0	0	3
2	B18EE06	Electrical Machines-II	3	1	0	4
3	B18EE07	Electrical Measurements and Instrumentation	3	0	0	3
4	B18EE11	Power Systems - II	3	0	0	3
5	B18EC08	Switching Theory and Logic Design	3	0	0	3
6	B18EC47	Pulse Digital and Linear Integrated Circuits Lab	0	0	3	1.5
7	B18EE09	Electrical Machines Laboratory -I	0	0	3	1.5
8	B18EE10	Basic Electric Simulation Lab	0	0	2	1
9	B18MC04	NSS	2	0	0	0
Total Credits						20

(3)
 (Dr. G.N. Srinivas)

(5)
 (Dr. E. Vidya Sagar)

(Dr. B. Durga Hari Kiran)

(Dr. M. Sudeep)
(Dr. K. Prakash)

(Mr. P. Rama Chandel Rao)

(Dr. Y. Harish Kumar)

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Semester-V (Third Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	B18EE50	Electrical Machines – III	3	0	0	3
2	B18EE12	Control Systems	3	0	0	3
3	B18EE13	Power Electronics	3	1	0	4
4		Professional Elective – I	3	0	0	3
5		Professional Elective – II	3	0	0	3
6	B18EE14	Electrical Machines Laboratory –II	0	0	2	1.50
7	B18EE15	Electrical Measurements and Instrumentation Laboratory	0	0	2	1.50
8	B18EE21	Control Systems Lab	0	0	2	1
9	B18MC05	Indian Constitution	2	0	0	0
Total Credits						20.19

Semester-VI (Third Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	B18EE17	Power Systems Operation and Control	3	0	0	3
2	B18EE18	Power System Protection	3	0	0	3
3	B18EE19	Power Semiconductor Drives	3	0	0	3
4	B18MB01	Managerial Economics and Financial Analysis	3	0	0	3
5		Professional Elective – III	3	0	0	3
6		Open Elective – I	3	0	0	3
7	B18EE20	Power Electronics Lab	0	0	2	1
8	B18EE16	Power Systems Laboratory	0	0	2	1
9	B18EC48	Electronics Design and Laboratory	1	0	2	2
	B18MC06	Logical Reasoning and Quantitative Analysis	2	0	0	0
Total Credits						22

Summer

after VI Sem.

- Internship is done during summer break and evaluation is done in 7th semester.

(3)
 (Dr. S. N. Srinivas)

(5)
 (Dr. E. Vidya Sagar)
 (Dr. B. Barga Hasi Kiran)

(Dr. M. S. Yeddu)

(Dr. K. Prakash)

(Mr. P. Purno Chander Rao)

(Dr. Y. Hareesh Kumar)

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Semester-VII (Fourth Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	B18EE22	Computer Methods in Power Systems	3	0	0	3
2	B18EC21	Microprocessors and Microcontrollers	3	0	0	3
3		Professional Elective – IV	3	0	0	3
4		Professional Elective – V	3	0	0	3
5		Open Elective – II	3	0	0	3
6	B18EC28	Microprocessors and Microcontrollers Lab	0	0	2	1
7	B18EE23	Electrical Simulation Lab	0	0	2	1
8	B18EN03	Advanced English Communication Skills Lab	0	0	2	1
9	B18EE25	Mini Project and Summer Internship	-	-	-	2
10	B18EE26	Project ^{Phase} Stage – I	0	0	8	4
Total Credits						24

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Semester-VIII (Fourth Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1		Professional Elective – VI	3	0	0	3
2		Open Elective – III	3	0	0	3
3	B18EE24	Technical Seminar	-	-	-	1
4	B18EE27	Project ^{Phase} Stage – II	0	0	14/16	7/8
Total Credits						14/16

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(Dr. S. Srinivas)

(Dr. E. Vidya Sagar)

(Dr. M. Sudeep)

(Dr. P. Purna Chandee Rao)

(Dr. B. Durga Hasi Binay)

(Dr. K. Prakash)

(Dr. Y. Harish Kumar)

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Elective Courses

Professional Elective – I		
1	B18EE28	Electric Machine Design
2	B18EC03	Signals and Systems
3	B18EE34	Electrical Distribution Systems
Professional Elective – II		
1	B18EC23	Digital Signal Processing
2	B18EE30	Renewable Energy Systems
3	B18EE31	Electrical Engineering Materials
Professional Elective – III		
1	B18EE32	Advanced Power Electronics
2	B18EE33	Advanced Control Systems
3	B18EE29	High Voltage Engineering
Professional Elective – IV		
1	B18EE35	Soft Computing Techniques
2	B18EE36	Advanced Electrical Drives
3	B18EE37	HVDC and FACTS
Professional Elective – V		
1	B18EE38	Electrical and Hybrid Vehicles
2	B18EE39	Power Quality
3	B18EE40	Digital Control Systems
Professional Elective – VI		
1	B18EE41	Neural Networks and Fuzzy Systems
2	B18EE42	Utilisation of Electrical Energy
3	B18EE43	Smart Grids

Open Elective – I		
1	B18CS08	Database Management Systems
2	B18EC18	Computer Organization
3	B18CS49	Internet of Things
Open Elective – II		
1	B18MB02	Management Science
2	B18CS09	OOPS Through Java
3	B18EC22	VLSI Design
4	B18CS44	Business Intelligence and Big Data
Open Elective – III		
1	B18MB03	Entrepreneurship Development
2	B18EC37	Embedded Systems
3	B18ME36	Power Plant Engineering
4	B18MB06	Intellectual Property Rights

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 (Dr. Y. Hareesh
 Kumar)

Dr. G. V. Srinivas
 Dr. F. Vidya Sagar
 Dr. M. Syduke
 Dr. B. Durga Hanikiran

Dr. P. Purna chandee Rao
 Dr. K. Prakash



VAAGDEVI COLLEGE OF ENGINEERING
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R18 Regulations (w.e.f 2018-19 A.Y)
Course Structure of M. Tech (Power Electronics)

(As per AICTE Model Curriculum)

Semester-I (First Year)

Sl. No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	M18PE01	Analysis of Power Electronic Converters	3	0	0	3
2	M18PE02	Power Electronic Control of DC Drives	3	0	0	3
3	M18PE03	Program Elective - I Modeling and Analysis of Electrical Machines	3	0	0	3
	M18PE04	Renewable Energy Systems				
	M18PE05	Modern Control Theory				
	M18EC01	Programmable Logic Controllers and their Applications				
4	M18PE06	Program Elective - II Modelling of Power Semiconductor Devices	3	0	0	3
	M18PE07	Digital Control of Power Electronics and Drive Systems				
	M18EC02	Microcontrollers and Applications				
5	M18PE08	Power Converters Simulation Lab	0	0	4	2
6	M18PE09	Power Converters Lab	0	0	4	2
7	M18MC01	Research Methodology	2	0	0	2
8		Audit Course-I Stress Management	2	0	0	0
Total Credits						18

Semester-II (First Year)

SLNo.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	M18PE10	Modern Power Electronic Converters	3	0	0	3
2	M18PE11	Power Electronic Control of AC Drives	3	0	0	3
3	M18PE13	Program Elective - III Electrical and Hybrid Vehicles	3	0	0	3
	M18PE14	Digital Control Systems				
	M18PE15	Power Quality				
4	M18EC03	Program Elective - IV Embedded Systems	3	0	0	3
	M18PE16	Dynamics of Electrical Machines				
	M18PS11	AI Techniques in Electrical Engineering				
5	M18PE17	Power Converters and Drives Simulation Lab	0	0	4	2
6	M18PE18	Power Converters and Drives Lab	0	0	4	2
7	M18MC02	Mini Project	0	0	4	2
8		Audit Course-II English for Research Paper Writing	2	0	0	0
Total Credits						18

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M. S. S.
(Dr. M. S. S.)

P. P.
(P. P. P.)

D. D.
(Dr. Durgakshi Kiran B)



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Semester-III (Second Year)

Sl.No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	M18PE12 M18PE19 M18PS16 M18EC04	Program Elective - V HVDC & FACTS Switched Mode Power Supplies Smart Grid Technologies Advanced Digital Signal Processing	3	0	0	3
2	M18PS18 M18PS19 M18ME01	Open Elective Energy Auditing, Conservation & Management Optimization Techniques Industrial Safety	3	0	0	3
3	M18PE20	Dissertation Phase- I	0	0	20	10
Total Credits						16

Semester-IV (Second Year)

Sl.No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	M18PE21	Dissertation Phase- II	0	0	32	16
Total Credits						16

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R18 Regulations(w.e.f 2018-19 A.Y)

Course Structure of M.Tech (Power System Control and Automation)

(As per AICTE Model Curriculum)

Semester-I (First Year)

S.No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	M18PS01	Advanced Power System Analysis	3	-	-	3
2	M18PS02	Advanced Power System Protection	3	-	-	3
3	M18PS03	Program Elective- I Economic operation power systems	3	-	-	3
	M18PS04	Power System Reliability				
	M18PE04	Renewable Energy Systems				
	M18PE05	Modern Control Theory				
4	M18PE01	Program Elective- II Analysis of Power Electronics Converters	3	-	-	3
	M18PS05	Distribution System Planning				
	M18EC02	Micro Controller and Applications				
5	M18MC01	Research Methodology	2	-	-	2
6	M18PS06	Power Systems Simulation Lab - I	-	-	4	2
7	M18PS07	Power Systems Lab - I	-	-	4	2
8		Audit Course - I Stress Management	2	-	-	-
Total Credits						18

Semester-II (First Year)

S.No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	M18PS08	Power System Dynamics	3	-	-	3
2	M18PS09	Power System Automation	3	-	-	3
3	M18PS10	Program Elective- III Restructured Power Systems	3	-	-	3
	M18PE14	Digital Control Systems				
	M18PE15	Power Quality				
4	M18PS11	Program Elective- IV AI Techniques in Electrical Engineering	3	-	-	3
	M18PS12	EHV AC Transmission				
	M18PS13	Reactive Power Compensation and Voltage Stability				
5	M18PS14	Power Systems Simulation Lab - II	-	-	2	1
6	M18PS15	Power Systems Lab - II	-	-	2	1
7	M18MC02	Mini Project	-	-	4	2
8		Audit Course - II English for Research Paper Writing	2	-	-	-
Total Credits						18

Hareesh
 (Dr. Y. Hareesh)
 Kumar

M. Syedul
 (Dr. M. Syedul)

P. Prerna
 (P. Prerna Chandra Rao)

Durgatten
 (Dr. Durgatten Kiran B)



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Semester-III (Second Year)

S.No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	M18PE12 M18PS16 M18PS17 M18EC04	Program Elective – V HVDC & FACTS Smart Grid Technologies Distributed Generation Advanced Digital Signal Processing	3	-	-	3
2	M18PS18 M18ME01 M18PS19	Open Elective Energy Auditing, Conservation and Management Industrial Safety Optimization Techniques	3	-	-	3
3	M18PS20	Dissertation Phase- I	-	-	20	10
Total Credits						16

Semester-IV (Second Year)

S.No.	Code	Course Title	Hours per week			Credits
			L	T	P	
1	M18PS21	Dissertation Phase- II	-	-	32	16
Total Credits						16

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Kiran
Mishra