



VAAGDEVI COLLEGE OF ENGINEERING

Autonomous

Bollikunta, Khila Warangal (Mandal), Warangal Urban-506 005 (T.S), www.vaagdevi.edu.in

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 27-01-2024.

BOARD OF STUDIES MEETING

Minutes of the meeting of Board of Studies for Electrical and Electronics Engineering department held on **27-01-2024 at 11:00 A.M.**

Ref: In-Continuation with Departmental BOS Meeting held on **25-01-2024.**

Sl.No.	Name of the Address	Designation	Signature
1	Dr. P. Sadanandam Associate Professor, Department of EEE, VCE, Warangal.	Chairperson	
2	Dr. A. Jayalaxmi Professor of EEE Department, <i>Director, UGC Affairs</i> JNTUH, CEH	Member (University Nominee)	
3	Dr. G. Yesurathnam Professor, EE Department, Osmania University, Hyderabad.	Member (Subject Expert)	
4	Dr. Ch. Ramulu Assistant Professor, EE Department, NIT, Warangal.	Member (Subject Expert)	
5	Sri Murali Mohan Gade Scientist 'F', Directorate of Systems, DRDL, Hyderabad.	Member (Representative from Industry)	
6	Dr. K. Prakash Professor, Department of EEE, VCE, Warangal.	Member (Faculty)	
7	Mr. P. Purna Chander Rao Associate Professor, Department of EEE, VCE, Warangal.	Member (Faculty)	
8	Dr. K. Ranjith Kumar Assistant Professor, Department of EEE, VCE, Warangal.	Member (Faculty)	
9	Mr. N. Mahender A.E, TS NPDCL, Warangal.	Member (Representative from Alumni)	

The following decisions are taken:

1. Approved the course structure and syllabi of B.Tech (R22-Regulations) for III-Year and IV-Year (I and II Semesters).
2. Approved the correction of few course codes of the R20 Regulations due to repetition.(Enclosed)
3. Approved the substitute subjects for the students who have been readmitted from R18 Regulations into R22 Regulations and R20 Regulations into R22 Regulations.(Enclosed)
4. Approved the internal Department BOS meeting minutes.

Dr. P. Sadanandam
(BOS- Chairperson)

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
COURSE STRUCTURE & SYLLABUS
(R22 Regulations)
Applicable from AY 2022-23 Batch

III Year I Semester

Sl.No	Course Code	Course Title	L	T	P	Credits
1		Power Electronics	3	1	0	4
2		Control Systems	3	0	0	3
3		Signals and Systems	3	1	0	4
4		Professional Elective-I	3	0	0	3
5		Business Economics and Financial Analysis	3	0	0	3
6		Power Electronics Laboratory	0	0	2	1
7		Control Systems Laboratory	0	0	2	1
8		Advanced English Communication Skills Laboratory	0	0	2	1
9		Intellectual Property Rights	3	0	0	0
		Total Credits	18	2	6	20

III Year II Semester

Sl.No	Course Code	Course Title	L	T	P	Credits
1		Open Elective-I	3	0	0	3
2		Professional Elective-II	3	0	0	3
3		Microprocessors & Microcontrollers	3	0	0	3
4		Power System Protection	3	0	0	3
5		Power System Operation and Control	3	0	0	3
6		Power System Laboratory	0	0	2	1
7		Microprocessors & Microcontrollers Laboratory	0	0	2	1
8		Electronics Design Laboratory	0	0	2	1
9		Industry Oriented Mini Project/ Internship	0	0	4	2
10		Environmental Science	3	0	0	0
		Total Credits	18	0	10	20

*MC609 - Environmental Science – Should be Registered by Lateral Entry Students Only.

1 *Ch* 2 *AS* 3 *eyh* 4 *As* 5
6 *Arjun* 7 *Ar* 8 *Djishu* 9

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IV Year I Semester

Sl.No	Course Code	Course Title	L	T	P	Credits
1		Power Electronic Applications to Renewable Energy Systems	3	1	0	4
2		Open Elective-II	3	0	0	3
3		Professional Elective-III	3	0	0	3
4		Professional Elective-IV	3	0	0	3
5		Management and Organizational Behavior	2	0	0	2
6		Simulation of Renewable Energy Systems Laboratory	0	0	4	2
7		Project Stage - I	0	0	6	3
		Total Credits	14	1	10	20

IV Year II Semester

Sl.No	Course Code	Course Title	L	T	P	Credits
1		Open Elective-III	3	0	0	3
2		Professional Elective-V	3	0	0	3
3		Professional Elective-VI	3	0	0	3
4		Project Stage – II	0	0	22	9
5		Technical Seminar	0	0	0	2
		Total Credits	9	0	22	20

*MC – Satisfactory/Unsatisfactory Professional Elective – I

1 *EW* 2 *AS* 3 *epu* 4 *Am* 5
6 *Prathy* 7 *AW* 8 *Digim* 9

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Professional Elective-I

1		Renewable Energy Systems
2		High Voltage Engineering
3		Computer Aided Electrical Machine Designs
4		Electrical Engineering Materials

Professional Elective-II

1		Flexible AC Transmission Systems
2		Power Semiconductor Drives
3		Digital Signal Processing
4		Advanced Control Systems

Professional Elective-III

1		Advanced Power Electronics
2		HVDC Transmission
3		Electric and Hybrid Vehicles
4		Utilization of Electrical Energy

Professional Elective-IV

1		Advanced Electrical Drives
2		Soft Computing Techniques
3		VLSI Design
4		IoT Applications in Electrical Engineering

Professional Elective-V

1		Power Quality
2		Solar Power Batteries
3		AI Techniques in Electrical Engineering
4		Embedded Systems Applications

Professional Elective-VI

1		Smart Grid Technologies
2		Electrical Distribution Systems
3		Digital Control Systems
4		Machine Learning Applications to Electrical Engineering

1 *Rm* 2 *AS* 3 *gys* 4 *AS* 5
6 *gys* 7 *AS* 8 *Digital* 9

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Open Elective-I

1		Concepts of Control Systems
2		Fundamental of Electric Vehicles

Open Elective-II

1		Electric Power Utilization & Safety
2		Energy Storage Systems

Open Elective-III

1		Charging Infrastructure for Electric Vehicles
2		Reliability Engineering

1 *Dr. C. R. S.* 2 *AS* 3 *eye* 4 *As* 5
6 *Prabha* 7 *Dr. C. R. S.* 8 *Dr. J. S. M.* 9



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ITEM-2

The following are subjects of R-20 with new subject codes

Sl. No.	Course title	Existing code	Corrected code
1	Electrical Engineering Practice Lab	B20EE05	B20EE05
2	Electrical Circuits - II	B20EE05	B20EE56
3	Electrical Machines Lab - I	B20EE15	B20EE15
4	Electrical Machines - III	B20EE15	B20EE57
5	Renewable Energy Systems (Open Elective)	B20EE56	B20EE19

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7 *[Signature]*

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ITEM-3

The following Transitory Rules will be in force for the students who have re-admitted from R20 Regulation into R22 Regulation.

Branch	Year & Semester	Subjects studied in R20 and repeated Subjects in R22	Credits	Substitute subjects for R22	Credits
EEE	III - I	Signals and Systems	03	Power Systems-II	03
	III - II	Nil	-	Nil	-
	IV - I	Nil	-	Nil	-
	IV - II	Nil	-	Nil	-

The following Transitory Rules will be in force for the students who have re-admitted from R18 Regulation into R22 Regulation.

Branch	Year & Semester	Subjects studied in R18 and repeated Subjects in R22	Credits	Substitute subjects for R22	Credits
EEE	III - I	Control Systems	03	Solid Mechanics & Hydraulic Machines	04
	III - II	Power System Protection	03	Solid Mechanics & Hydraulic Machines	04
	IV - I	Nil	-	Nil	-
	IV - II	Nil	-	Nil	-

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2 *[Signature]*

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