GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

Course File

Power System Lab

G.SandhyaRani
Assistant Professor,EEE Department

Course Tittle: Power System Lab

Following documents are available in Course File.

S.No.	Points	Yes	No
1	Institute and Department Vision and Mission Statements	✓	
2	PEO & PO Mapping	✓	
3	Academic Calendar	✓	
4	Subject Allocation Sheet	✓	
5	Class Time Table, Individual Timetable (Single Sheet)	✓	
6	Syllabus Copy	✓	
7	Course Handout	✓	
8	CO-PO Mapping	✓	
9	CO-Cognitive Level Mapping	✓	
10	Lecture Notes		
11	Tutorial Sheets With Solution		
12	Soft Copy of Notes/Ppt/Slides		
13	Sessional Question Paper and Scheme of Evaluation	✓	
14	Best, Average and Weak Answer Scripts for Each Sessional Exam. (Photocopies)		
15	Assignment Questions and Solutions		
16	Previous University Question Papers		
17	Result Analysis		
18	Feedback From Students	✓	
19	Course Exit Survey	✓	
20	CO Attainment for All Mids.		
21	Remedial Action.		

Course Instructor / Course Coordinator

(Name)

Course Instructor / Course Coordinator

(Signatur

Vision of the Institute

To be among the best of the institutions for engineers and technologists with attitudes, skills and knowledge and to become an epicenter of creative solutions.

Mission of the Institute

To achieve and impart quality education with an emphasis on practical skills and social relevance.

Vision of the Department

To impart technical knowledge and skills required to succeed in life, career and help society to achieve self sufficiency.

Mission of the Department

- To become an internationally leading department for higher learning.
- To build upon the culture and values of universal science and contemporary education.
- To be a center of research and education generating knowledge and technologies which lay groundwork in shaping the future in the fields of electrical and electronics engineering.
- To develop partnership with industrial, R&D and government agencies and actively participate in conferences, technical and community activities.

Programme Educational Objectives (B.Tech. – EEE)

This programme is meant to prepare our students to professionally thrive and to lead.

During their progression:

Graduates will be able to

PEO 1: Have a successful technical or professional careers, including supportive and leadership roles on multidisciplinary teams.

PEO 2: Acquire, use and develop skills as required for effective professional practices.

PEO 3: Able to attain holistic education that is an essential prerequisite for being a responsible member of society.

PEO 4: Engage in life-long learning, to remain abreast in their profession and be leaders in our technologically vibrant society.

Programme Outcomes (B.Tech. – EEE)

At the end of the Programme, a graduate will have the ability to

PO 1: Apply knowledge of mathematics, science, and engineering.

PO 2: Design and conduct experiments, as well as to analyze and interpret data.

PO 3: Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

PO 4: Function on multi-disciplinary teams.

PO 5: Identify, formulates, and solves engineering problems.

PO 6: Understanding of professional and ethical responsibility.

PO 7: Communicate effectively.

PO 8: Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

PO 9: Recognition of the need for, and an ability to engage in life-long learning.

PO 10: Knowledge of contemporary issues.

PO 11: Utilize experimental, statistical and computational methods and tools necessary for engineering practice.

PO 12: Demonstrate an ability to design electrical and electronic circuits, power electronics, power systems; electrical machines analyze and interpret data and also an ability to design digital and analog systems and programming them.

PEOs & POs Mapping

Programme Educational Objectives (PEOs)	Programme Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
1	M	M	-	-	H	-	-	H	H	-	H	H
2	-	-	M	M	H	H	H	-	-	-	-	H
3	-	-	-	-	H	H	M	M	M	M	H	H
4	-	-	-	M	M	H	M	H	H	-	M	H

* H: Strongly Correlating (3); M: Moderately Correlating (2)& L: Weakly Correlating (1)

HOD-EEE

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

GRIET/DAA/1H/G/18-19

ACADEMIC CALENDAR
Academic Year 2018-19

III & IV B.TECH – FIRST SEMESTER

S. No.	EVENT	PERIOD	DURATION
1	1st Spell of Instructions	02-07-2018 to 01-09-2018	9 Weeks
2	1st Mid-term Examinations	03-09-2018 to 05-09-2018	3 Days
3	2nd Spell of Instructions	06-09-2018 to 24-10-2018	7 Weeks
4	2nd Mid-term Examinations	25-10-2018 to 27-10-2018	3 Days
5	Preparation	29-10-2018 to 06-11-2018	1 Week 3 Days
6	**End Semester Examinations (Theory/ Practicals) Regular/Supplementary**	**08-11-2018 to 08-12-2018**	**4 Weeks 3 Days**
7	Commencement of Second Semester, A.Y 2018-19	10-12-2018	

III & IV B.TECH – SECOND SEMESTER

S. No.	EVENT	PERIOD	DURATION
1	1st Spell of Instruction	10-12-2018 to 02-02-2019	8 Weeks
2	1st Mid-term Examinations	04-02-2019 to 06-02-2019	3 Days
3	2nd Spell of Instruction	07-02-2019 to 06-04-2019	**8 Weeks 3 Days**
4	2nd Mid-term Examinations	08-04-2019 to 10-04-2019	3 Days
5	Preparation	11-04-2019 to 17-04-2019	1 Week
6	**End Semester Examinations (Theory/ Practicals) Regular**	18-04-2019 to 08-05-2019	3 Weeks
7	**Supplementary and Summer Vacation**	**09-05-2019 to 22-06-2019**	**6 Weeks 3 Days**
8	Commencement of First Semester, A.Y 2019-20	24-06-2019	

Dean of Academic Affairs

Department of Electrical and Electronics Engineering

2018-19 II sem Subject Allocation sheet

GRIET/EEE/05B/G/18-19		**30.10.18**
II YEAR(GR17)	Section-A	Section-B
Managerial Economics and Financial Analysis		
Power Generation and Distrubution	SN	SN
AC Machines	VVSM	VVSM
Control Systems	Dr DGP	MS
Princeples of Digital Electronics	PRK	PRK
AC Machines Lab	PPK/DSR	PPK/DSR
Control Systems Lab	MS/PSVD	MS/PSVD
Analog and Digital Electronics Lab	RAK/DKK	RAK/DKK
Value Education and Ethics		
Gender Sensitization Lab	MS/PSVD	MS/PSVD
III YEAR (GR15)		
Computer Methods in Power systems	VVRR/MP	VVRR/MP
Switch Gear & Protection	PSVD	Dr JSD
Management Science		
Utilization of Electrical Energy	MRE	MRE
Non Conventional Sources of Energy		
Neural and Fuzzy Systems		
Sensors&Transducers	UVL	UVL
Power Systems Lab	GSR/YSV	GSR/YSV
Advanced English Communications Skills Lab		
Industry Oriented Mini Project Lab	PPK/AVK/Dr JP	MP/Dr JP

IV YEAR (GR15)		
Programmable Logic Controllers	PK	
Flexible AC Transmission Systems	Dr TSK	
EHV AC Transmission		
Power System Automation		
Modern Power Electronics	AVK	
DSP Based Electromechanical Systems		
Advaced Control Systems		
Programmable Logic Controllers-Lab	VVSM	PK
Main Projects	RAK/Dr SVJK	PK/VVRR
M.Tech PE		
Modeling and Analysis of Electrical Machines	Dr BPB	
Digital control of power Electronics and Drive Systems	Dr DGP	
FACTS and Custom power Devices	Dr TSK	
Smart Grids	VVRR	
Audit Course -2	YSV/UVL	
Power Quality Lab	Dr BPB	
Digital Signal Processing Lab	AVK	
MINI Projects	Dr JP/GSR	
M.Tech PS		
Digital Protection of Power System	Dr JSD	
Power System Dynamics -II	Dr SVJK	
FACTS and Custom power Devices	Dr TSK	
Smart Grids	VVRR	
Audit Course -2	YSV/UVL	
Power Quality Lab	Dr BPB	
Power System Protection Lab	VUR	
MINI Projects	Dr JP/GSR	
Other Dept.		
BEE (I YEAR) CSE (6)	MNSR,MK,MVK,	
BEE Lab	MNSR,MK,MVK,YSV,VUR,PS,UVL,MRE, GBR	
EET (II YEAR) Mech (2)	KS	KS
EET LAB (II TEAR) Mech (2)	KS,DKK,PPK,	

Signature of HOD

Date:

Signature of faculty

Date:

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

AY: 2018-2019

TIME TABLE

BTech - EEE - A — **III year - II Semester**

DAY/ HOUR	9:00 - 9:45	9:45 - 10:30	10:30 - 11:15	11:15-12:00	12:00-12:30	12:30 - 1:20	1:20 - 2:10	2:10 -3:00
MONDAY	SGP		CMPS		BREAK	S&T		UEE
TUESDAY	SGP		S&T			UEE		CMPS
WEDNESDAY	MS		UEE			SGP		S&T
THURSDAY	IOMP Lab(A1) / AECS Lab(A2)					CMPS		S&T
FRIDAY	PS Lab(A2) /AECS Lab(A1)					MS		UEE
SATURDAY	IOMP Lab(A2) / PS Lab (A1)					CMPS		SGP

Room No	
Theory	4501
Lab	4504/4407/
Class Incharge:	M Rekha

Subject Code	Subject Name	Faculty Code	Faculty name	Almanac	
CMPS	Computer Methods in Power systems	VVRR/MP	V Vijaya Rama Raju/M Prashanth	1st Spell of Instructions	10-12-2018 to 06-02-2019
SGP	Switch Gear & Protection	PSVD	P Srividya Devi	1st Mid-term Examinations	07-02-2019 to 09-02-2019
MS	Management Science	Dr MSRS	Dr M S R Sesha giri	2nd Spell of Instructions	11-02-2019 to 03-04-2019
UEE	Utilization of Electrical Energy	MRE	M Rekha	2nd Mid-term Examinations	04-04-2019 to 06-04-2019
S&T	Sensors& Transducers	UVL	U Vijaya Lakshmi	Preparation	08-04-2019 to 17-04-2019
PS Lab	Power Systems Lab	GSR/YSV	G Sandhya Rani/Y Satyavani	End Semester Examinations (Theory/ Practicals) Regular	18-04-2019 to 08-05-2019
AECS Lab	Advanced English Communications Skills Lab	ES	E Sailaja		
IOMP Lab	Industry Oriented Mini Project Lab	AVK/PPK/Dr JP	A Vinay Kumar/P Praveen Kumar/ Dr J Praveen	Supplementary and Summer Vacation	09-05-2019-to 22-06-2019
				Commencement of Second Semester , AY	6/24/2019

BTech - EEE - B — **III year - II Semester**

DAY/ HOUR	9:00 - 9:45	9:45 - 10:30	10:30 - 11:15	11:15-12:00	12:00-12:30	12:30 - 1:20	1:20 - 2:10	2:10 -3:00
MONDAY	PS Lab(B1) /AECS Lab(B2)				BREAK	UEE		CMPS
TUESDAY	PS Lab(B2) /IOMP Lab(B1)					CMPS		S&T
WEDNESDAY	IOMP Lab(B2) / AECS Lab(B1)					SGP		CMPS
THURSDAY	SGP		UEE			S&T		MS
FRIDAY	UEE		CMPS			S&T		SGP
SATURDAY	MS		SGP			UEE		S&T

Room No	
Theory	4404
Lab	4504/4407/
Class Incharge:	M Rekha

Subject Code	Subject Name	Faculty Code	Faculty name	Almanac	
CMPS	Computer Methods in Power systems	VVRR/MP	V Vijaya Rama Raju/M Prashanth	1st Spell of Instructions	10-12-2018 to 06-02-2019
SGP	Switch Gear & Protection	DrJSD	Dr J Sridevi	1st Mid-term Examinations	07-02-2019 to 09-02-2019
MS	Management Science	Dr MSRS	Dr M S R Sesha giri	2nd Spell of Instructions	11-02-2019 to 03-04-2019
UEE	Utilization of Electrical Energy	MRE	M Rekha	2nd Mid-term Examinations	04-04-2019 to 06-04-2019
S&T	Sensors& Transducers	UVL	U Vijaya Lakshmi	Preparation	08-04-2019 to 17-04-2019
PS Lab	Power Systems Lab	GSR/YSV	G Sandhya Rani/Y Satyavani	End Semester Examinations (Theory/ Practicals) Regular	18-04-2019 to 08-05-2019
AECS Lab	Advanced English Communications Skills Lab	ES	E Sailaja		
IOMP Lab	Industry Oriented Mini Project Lab	MP/DrJP	M Prashanth/ Dr J Praveen	Supplementary and Summer Vacation	09-05-2019-to 22-06-2019
				Commencement of Second Semester , AY	6/24/2019

Day/Hour	9:00 - 9:45	9:45 - 10:30	10:30 - 11:15	11:15-12:00	12:00-12:30	12:30 - 1:20	1:20 - 2:10	2:10 - 3:00
MONDAY	PS Lab (B1)				BREAK			
TUESDAY	PS Lab (B2)							
WEDNESDAY								
THURSDAY								
FRIDAY	PS Lab (A2)							
SATURDAY	PS Lab (A1)							

Room No.: 4504	
Theory	
Lab	PS LAB
Class Incharge:	M.Rekha

Syllabus

Course Code: GR14A3025 III Year II Semester L:0 T:0 P:2 C:2

CONTENTS:

1. Tripping Characteristics of an MCB of 1Ampere rating
2. Tripping sequence of protective devices
3. Tripping characteristics of protective devices
4. Testing of Instantaneous Over Current relay a) Phase Faults b) Earth Faults
5. a) Testing of differential relay
   b) Testing of percentage biased differential Relay
6. Testing of Negative sequence Relay
7. Model of a Transmission Line with Lumped Parameters
8. a) Testing of Over Voltage Relay
   b) b) Testing of Under Voltage Relay
9. Current time Characteristics of Induction Disc type relay
10. Short circuit Analysis
11. Protection of Motor, transformer and bus
12. Protection of generator in parallel configuration

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GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSE OBJECTIVES

Academic **Y**ear : 2018-2019

Semester : II

Name of the Program: EEE…… B.Tech**…III…**.… Section: A/B

Course/Subject: POWER SYSTEMS LAB Code: GR17A3025

Name of the Faculty: G.Sandhyarani & Y.Satyavani Dept: .EEE…
Designation: Assistant Professor

S.No	Course Objectives
1.	To provide knowledge in the area of power systems hardware and software
2.	To analyse the characteristics of various relays
3.	To analyse various types of faults and its protection
4.	To provise knowledge of various power factor correction systems
5.	To provide the knowledge on the concepts of arc flash, load flow, short circuit, transient stability and relay coordination
6.	To provide the knowledge on power management system softwarein Real-time applications

Signature of HOD Signature of faculty

Date: Date:

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSE OUTCOMES

Academic **Y**ear : 2018-2019

Semester : II

Name of the Program: EEE…… B.Tech**…III…**.… Section: A/B

Course/Subject: POWER SYSTEMS LAB Code: GR17A3025

Name of the Faculty:G.Sandhyarani & Y.Satyavani Dept: .EEE…
Designation: Assistant Professor

The expected outcomes of the Course/Subject are:

S.No	Course Outcomes
1.	Know the power systems hardware
2.	Analyse the characteristics of various relays.
3.	Design and analyse the transmission line.
4.	Analyse various types of faults and its protection
5.	Implement various power factor correction systems
6.	Perform load flows,short circuit analysis for power generation, transmission and distribution networks.
7.	Integrate software for applications that provides intelligent power monitoring, energy management, system optimization, advanced automation, and real-time prediction

Signature of HOD Signature of faculty

Date: Date:

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

GUIDELINESTOSTUDYTHE COURSE/SUBJECT

Academic **Y**ear : 2018-2019

Semester : II

Name of the Program: EEE…… B.Tech **… III …**.… Section: A/B

Course/Subject: POWER SYSTEM LAB……Code: GR15A3025

Name of the Faculty: G.Sandhyarani/Y.Satyavani Dept: ….EEE…

Designation:Assistant Professor

Course Design and Delivery System (CDD):

- The Course syllabus is written into number of learning objectives and outcomes.
- These learning objectives and outcomes will be achieved through lectures, assessments, assignments, experiments in the laboratory, projects, seminars, presentations, etc.
- Every student will be given an assessment plan, criteria for assessment, scheme of evaluation and grading method.
- The Learning Process will be carried out through assessments of Knowledge, Skills and Attitude by various methods and the students will be given guidance to refer to the text books, reference books, journals, etc.

The faculty be able to –

- Understand the principles of Learning
- Understand the psychology of students
- Develop instructional objectives for a given topic
- Prepare course, unit and lesson plans
- Understand different methods of teaching and learning
- Use appropriate teaching and learning aids
- Plan and deliver lectures effectively
- Provide feedback to students using various methods of Assessments and tools of Evaluation
- Act as a guide, advisor, counselor, facilitator, motivator and not just as a teacher alone

Signature of HOD Signature of faculty

Date: Date:

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSE SCHEDULE

Academic **Y**ear : 2018-2019

Semester : II

Name of the Program: EEE…… B.Tech**…III…**…. Section: A/B

Course/Subject: POWER SYSTEMS LAB Code: GR17A3025

Name of the Faculty:G.Sandhyarani & Y.Satyavani Dept: .EEE…
Designation: Assistant Professor

The Schedule for the whole Course / Subject is:

S. No.	Description	Total No of Periods
1.	Tripping Characteristics of an MCB of 1Ampere rating	4
2.	Tripping sequence of protective devices	4
3.	Tripping characteristics of protective devices	4
4.	Testing of Instantaneous Over Current relay a) Phase Faults b) Earth Faults	4
5.	a) Testing of differential relay b) Testing of percentage biased differential Relay	4
6.	Testing of Negative sequence Relay	4
7	Model of a Transmission Line with Lumped Parameters	4
8	a) Testing of Over Voltage Relay b) Testing of Under Voltage Relay	4
9	Current time Characteristics of Induction Disc type relay	4
10	Short circuit Analysis	4
11	Protection of Motor, transformer and bus	4
12	Protection og generator in parallel configuration	4

Total No. of Instructional periods available for the course: …. …….Hours / Periods

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Department of Electrical & Electronics Engineering

SCHEDULE OF INSTRUCTIONSCOURSEPLAN

Academic **Y**ear : 2018-2019

Semester : II
Name of the Program: EEE…… B.Tech**…III…**.… Section: A/B

Course/Subject: POWER SYSTEMS LAB Code: GR17A3025

Name of the Faculty:G.Sandhyarani & Y.Satyavani Dept: .EEE…

Designation: Assistant Professor

Unit No.	**Lesson No.**	**No. of Periods**	**Topics / Sub-Topics**	**Objectives & Outcomes Nos.**
1	1	4	Tripping Characteristics of an MCB of 1Ampere rating	2,3,4
2	2	4	Tripping sequence of protective devices	1,3
3	3	4	Tripping characteristics of protective devices	1,3 1,3
4	4	4	Testing of Instantaneous Over Current relay a) Phase Faults b) Earth Faults	1,3 1,3
5	5	4	a) Testing of differential relay b) Testing of percentage biased differential Relay	1,3
6	6	4	Testing of Negative sequence Relay	1,3
7	7	4	Model of a Transmission Line with Lumped Parameters	1,2
8	8	4	a) Testing of Over Voltage Relay b) Testing of Under Voltage Relay	1,3

9	9	4	Current time Characteristics of Induction Disc type relay	1,3
10	10	4	Short circuit Analysis	2,3
11	11	4	Protection of Motor, transformer and bus	2,3
12	12	4	Protection of generator in parallel configuration	2,3

Signature of HOD

Date:

Signature of faculty

Date:

8	CO-PO Mapping

Assessment methods:

1. Operation skill and familiarization of software.
2. Experimental procedure, simulation results, internal observation, lab record.
3. Internal examinations.
4. External examinations.
5. Viva-voce.

1. Program Educational Objectives (PEOs) – Vision/Mission Matrix (Indicate the relationships by mark "X")

PEOs	**Mission of department**			
	Higher Learning	ɔntemporary Education	Technical knowledge	Research
Graduates will have a successful technical or professional careers, including supportive and leadershiproles on multidisciplinary teams	X	X	X	X
Graduates will be able to acquire, use and develop skills as requiredfor effective professional practices		X	X	
Graduates will be able to attain holistic education that is an essential prerequisite for being aresponsible member of society	X		X	
Graduates will be engaged in life-long learning, to remain abreast in their profession and be leaders in our technologically vibrant society.	X		X	X

2. Program Educational Objectives(PEOs)-Program Outcomes(POs) Relationship Matrix (Indicate the relationships by mark"X"

P-Outcomes / PEOs	a	b	c	d	e	f	g	h	i	j	k	l
1	X	X	X	X	X			X	X	X	X	X
2	X	X	X	X	X			X	X	X	X	X
3		X	X	X		X	X	X	X	X		
4				X					X	X		X

3. Course Objectives-Course Outcomes Relationship Matrix (Indicate the relationships by mark"X")

Course-Outcomes / Course-Objectives	1	2	3	4	5	6	7
1	X			X	X	X	X
2	X				X	X	X
3		X	X				X
4		X					X

4. Course Objectives-Program Outcomes (POs) Relationship Matrix
(Indicate the relationships by mark "X")

P-Outcomes / C-Objectives	a	b	c	d	e	f	g	h	i	j	k	l
1		X	X								X	X
2	X	X		X							X	X
3		X	X		X		X	X			X	X
4		X	X			X		X			X	X

5. Course Outcomes-Program Outcomes (POs) Relationship Matrix
(Indicate the relationships by mark"X")

P-Outcomes / C-Outcomes	a	b	c	d	e	f	g	h	i	j	k	l
1	X		X						X			
2	X				X							
3		X									X	X
4	X				X							X
5	X				X						X	
6	X	X									X	X
7	X	X									X	

6. Courses (with title & code)-Program Outcomes (POs) RelationshipMatrix
(Indicate the relationships by mark "X")

P-Outcomes / Courses	a	b	c	d	e	f	g	h	i	j	k	l
Op Amps-GR11A3078		X	X		X						X	

7. Program Educational Objectives (PEOs)-Course Outcomes RelationshipMatrix
(Indicate the relationships by mark "X")

P-Objectives (PEOs) / Course-Outcomes	1	2	3	4
1	X	X		X
2	X	X		X
3	X	X		X
4	X	X		X
5	X	X		X
6	X	X		X
7	X	X		X

8. Assignments & Assessments-Program Outcomes (POs) RelationshipMatrix(Indicate the relationships by mark "X"

P-Outcomes / Assessments	a	b	c	d	e	f	g	h	i	J	k	l
1	X	X	X			X	X		X		X	X
2	X	X	X		X	X	X	X			X	X
3	X	X			X						X	X
4	X	X			X						X	X
5	X	X			X		X				X	

9. **Assignments & Assessments-Program Educational Objectives (PEOs) Relationship Matrix** (Indicate the relationships by mark"X")

P-Objectives (PEOs) / Assessments	1	2	3	4
1	X	X		
2		X		
3		X	X	X
4		X		
5		X		

Assessment process and Relevant Surveys conducted:

10. **Constituencies -Program Outcomes (POs) Relationship Matrix** (Indicate the relationships by mark "X").

Constituencies

1. **Alumni**
2. **Governmentemployers**
3. **Students**

P-Outcomes / Constituencies	a	b	c	d	e	f	G	h	i	j	k	l
1	X	X	X	X	X	X	X		X	X		X
2	X	X	X	X	X	X	X		X			X
3	X	X			X	X	X	X		X	X	X

9	CO-Cognitive Level Mapping

CO	Cognitive Learning Level					
	1	2	3	4	5	6
1					X	
2	X					
3		X				
4					X	
5			X			
6			X			
7			X			

Cognitive Learning Levels:

CLL1: Remembering

CLL2: Understanding

CLL3: Applying

CLL4: Analyzing

CLL5: Evaluating

CLL6: Creating

13	Sessional Question Paper and Scheme of Evaluation

EVALUATION STRATEGY

Academic **Y**ear : 2018-2019

Semester : II

Name of the Program: EEE…… B.Tech**…III…**…. Section: A/B

Course/Subject: POWER SYSTEMS LAB Code: GR17A3025
Name of the Faculty: G.Sandhyarani &
Y.Satyavani Dept: .EEE…
Designation: Assistant Professor

1. TARGET:

A) Percentage for pass: 100%

2. COURSE PLAN & CONTENT DELIVERY

- PPT presentation of the Lectures
- Solving exercise problems
- Model questions

3. METHOD OF EVALUATION

3.1 ☐ Daily Attendance

3.2 ☐ Lab records and observation

3.3 ☐ Mini Projects

3.4 ☐ Viva Voce

3.5 ☐ Internal Examination

3.6 ☐ Semester/End Examination

4. List out any new topic(s) or any innovation you would like to introduce in teaching the subjects in this Semester.

Signature of HOD Signature of faculty

Date: Date:

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

Feedback Report

FeedBack No : 3
Branch : Electrical and Electronics Engineering
Academic Year : 2018-19
Year & Semester : Third Year, Second Semester
Subject Name : Power Systems Lab
Faculty Name : G.Sandhya Rani
Subject Code : GR15A3025
Section : B1

S.No	Question	Average
1	How does the teacher explain the subject?	3.19
2	How do you find the language and communication skill of the teacher?	3.35
3	Rate your teacher's regularity / punctuality to the class	3.13
4	Rate your teacher's explanation in clearing the doubts	3.32
5	Rate your teacher's commitment in completing the syllabus	3.19
6	Does the teacher pays attention to all the students?	3.19
7	Rate your teachers use of teaching aids	3.19
8	Is the session interactive?	3.19
9	Rate your teacher's guidence in other activities like Moodle, NPTEL etc	3.26
10	What is the overall opinion about the teacher?	3.10

No of Students given feedback : 31

Overall average : 3.21

Feedback Report

FeedBack No : 3
Branch : Electrical and Electronics Engineering
Academic Year : 2018-19
Year & Semester : Third Year, Second Semester
Subject Name : Power Systems Lab
Faculty Name : Y. Satyavani
Subject Code : GR15A3025
Section : B2

S.No	Question	Average
1	How does the teacher explain the subject?	3.20
2	How do you find the language and communication skill of the teacher?	3.27
3	Rate your teacher's regularity / punctuality to the class	3.20
4	Rate your teacher's explanation in clearing the doubts	3.40
5	Rate your teacher's commitment in completing the syllabus	3.37
6	Does the teacher pays attention to all the students?	3.27
7	Rate your teachers use of teaching aids	3.23
8	Is the session interactive?	3.27
9	Rate your teacher's guidence in other activities like Moodle, NPTEL etc	3.23
10	What is the overall opinion about the teacher?	3.10

No of Students given feedback : 30

Overall average : 3.25

19	Course Exit Survey

RUBRIC
OBJECTIVE: Work effectively with others
STUDENT OUTCOME: Ability to function in a multi-disciplinary team

S.No.	Student Name	Performance Criteria	Unsatisfactory	Developing	Satisfactory	Exemplary	Score
			1	2	3	4	
1	D.Tejaswi 16241A0213	**Research & Gather Information**	Does not collect any information that relates to the topic.	Collects very little information some relates to the topic	Collects some basic Information most relates to the topic.	Collects a great deal of Information all relates to the topic.	4
		Fulfill team role's	Does not perform any duties of assigned team role.	Performs very little duties.	Performs nearly all duties.	Performs all duties ofassigned team role.	4
		Share Equally	Always relies on others to do the work.	Rarely does the assigned work--often needs reminding.	Usually does the assigned work--rarely needs reminding.	Always does the assigned work without having to be reminded	4
		Listen to other team mates	Is always talking--never allows anyone else to speak.	Usually doing most of the talking rarelyallows Othersto speak	Listens, but sometimes talks too much.	Listens and speaks a fair amount.	4
						Average score	4

S.No.	Student Name	Performance Criteria	Unsatisfactory	Developing	Satisfactory	Exemplary	Score
			1	2	3	4	
2	M.Karunya 16241A0242	**Research & Gather Information**	Does not collect any information that relates to the topic.	Collects very little information some relates to the topic	Collects some basic Informatio n most relates to the topic.	Collects a great deal of Informati on all relates to the topic.	3
		Fulfill team role's	Does not perform any duties of assigned team role.	Performs very little duties.	Performs nearly all duties.	Performs all duties ofassigne d team role.	3
		Share Equally	Always relies on others to do the work.	Rarely does the assigned work-- often needs reminding.	Usually does the assigned work-- rarely needs reminding.	Always does the assigned work without having to be reminded	3
		Listen to other team mates	Is always talking--never allows anyone else to speak.	Usually doing most of the talking rarelyallows Otherto speak	Listens, but sometimes talks too much.	Listens and speaks a fair amount.	3
						Average score	3

S.No.	Student Name	Performance Criteria	Unsatisfactory	Developing	Satisfactory	Exemplary	Score
			1	2	3	4	
3	R.Raashik Arun 16241A0243	**Research & Gather Information**	Does not collect any information that relates to the topic.	Collects very little information some relates to the topic	Collects some basic Information most relates to the topic.	Collects a great deal of Information all relates to the topic.	2
		Fulfill team role's	Does not perform any duties of assigned team role.	Performs very little duties.	Performs nearly all duties.	Performs all duties ofassigned team role.	2
		Share Equally	Always relies on others to do the work.	Rarely does the assigned work--often needs reminding.	Usually does the assigned work--rarely needs reminding.	Always does the assigned work without having to be reminded	2
		Listen to other team mates	Is always talking--never allows anyone else to speak.	Usually doing most of the talking rarelyallows Othersto speak	Listens, but sometimes talks too much.	Listens and speaks a fair amount.	2
						Average score	2

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSE COMPLETION STATUS

Academic **Y**ear : 2018-2019

Semester : II

Name of the Program: EEE B.Tech **III** Section: A/B

Course/Subject: Power Systems Lab……Code: GR17A3025
Name of the Faculty:
G.Sandhyarani&Y.Satyavani Dept: ….EEE…

Designation:Assistant Professor

Actual Date of Completion & Remarks, if any

Program	Remarks	No. of Objectives Achieved	No. of Outcomes Achieved
1	1 & 2 programs completed by 18/07/1		
2		2,3,4	2,4
3	3 & 4 programs completed by 22/07/18		
4		1,3	2,4
5	5 program completed by 26/07/18	1,3	2,4
6	6 program completed by 29/07/18	1,3	2,4
7	7 program completed by 02/08/18	1,3	2,4
8	8 program completed by 16/08/18	1,3	2,4
9	9 program completed by 23/08/18	1,3	2,4
10	10 program completed by 30/08/18	1,3	2,4
11	11 & 12 program completed by 06/09/18	1,2	2,3
12		1,3	2,1,5
13	13 program completed by 13/09/18	1,3	2,1,5
14	14 programs completed by 27/09/18	1,3	2,1,5
15	15 programs completed by 11/10/18	2,3	1,2,3,6 ,7

Signature of HOD

Date:

Signature of faculty

Date:

ILLUSTRATIVE VERBS FOR STATING INSTRUCTIONAL OBJECTIVES

These verbs can also be used while framing questions for Continuous Assessment Examinations as well as for End – Semester (final)Examinations

ILLUSTRATIVE VERBS FOR STATING GENERAL OBJECTIVES/OUTCOMES

	Know	Understand		
Design				

ILLUSTRATIVE VERBS FOR STATING SPECIFIC OBJECTIVES/OUTCOMES:

A. COGNITIVE DOMAIN (KNOWLEDGE)

1	2	3	4	5	6
Knowledge	Comprehension Understanding	Application of knowledge & comprehension	Analysis Of whole w .r.t. its constituents	Synthesis	Evaluation Judgment
Define Identify	Convert Describe (a Procedure) Distinguish Explain why/how	Demonstrate Prepare Relate Show Solve	Differentiate Discriminate Distinguish Separate	Categorize Combine Design Generate Plan	Compare

B. AFFECTIVE DOMAIN (ATTITUDE)

Assist	Select
Change	Develop

C. PSYCHOMOTOR DOMAIN (SKILLS)

Bend	Dissect	Insert	Perform	Straighten
Calibrate	Draw	Keep	Prepare	Strengthen
Compress	Extend	Elongate	Remove	Time
Conduct	Feed	Limit	Replace	Transfer
Connect	File	Manipulate	Report	Type
Convert	Grow	Move Precisely	Reset	Weigh
Decrease	Increase	Paint	Set	