GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

Course Tittle: _____Power Electronics 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	NA	
10	Lecture Notes	NA	
11	Tutorial Sheets With Solution	NA	
12	Soft Copy of Notes/Ppt/Slides	NA	
13	Sessional Question Paper and Scheme of Evaluation	NA	
14	Best, Average and Weak Answer Scripts for Each Sessional Exam. (Photocopies)	NA	
15	Assignment Questions and Solutions	NA	
16	Previous University Question Papers	NA	
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

(Signature)

Vision of the Institute:

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

Mission of the Institute:

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

Vision of the Program:

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

Mission of the Program:

- 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.

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

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)

CO -PO Mapping

Course Outcomes-Program Outcomes(POs) Relationship Matrix:

P-Outcomes Course outcomes	a	b	c	d	e	f	g	h	i	j	k	l
1	-	H	H	M	-	H	M	M	H	-	H	H
2	H	H	H	M	-	H	-	M	H	-	H	H
3	-	H	H	M	-	H	-	M	H	H	H	H
4	H	M	-	H	-	M	H	-	M	-	-	M
5	H	-	H	M	-	M	H	M	M	-	H	M
6	H	H	M	M	-	H	H	H	-	-	H	M
7	-	H	H	M	-	H	H	M	H	M	H	H

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

GRIET/DAA/1H/G/18-19 05 May 2018

ACADEMIC CALENDAR

Academic Year 2018-19

III 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 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	

Copy to Director, Principal, Vice Principal, DOA, DOE, Balaji Kumar, DCGC, All HODs

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

(2018-19) I- Sem Subject Allocation Sheet

	Section-A	Section-B
Special Functions and Complex Variable	Dr GS	Dr GS
Electromagnetic Fields	SN	SN
Network Theory	MS	MS
DC Machines and Transformers	Dr BPB	Dr BPB
Computer Organization	PRK	PRK
DC Machines Lab	MP/DSR	PRK/DSR
Electrical Networks Lab	YSV/GBR	YSV/GBR
Electrical Simulation Lab	GSR/PS	GSR/PS
Environmental Science		
III YEAR (GR15)	Section-A	Section-B
Power Transmission System	VVRR/MP	VVRR/MP
Microcontrollers	PK	PK
Power Electronics	Dr TSK	DKK
Electrical Measurements& Instrumentation (PE-1)	UVL	UVL
Solar & Wind Energy Systems (OE-1)	PSVD/Dr JP	PSVD/Dr JP
Sensors/Measurements& Instrumentation Lab	PSVD/PS	UVL/PS
Power Electronics Lab	PPK/MRE	SN/MRE
Microcontrollers Lab	RAK/DKK	PK/DKK
IV YEAR(GR15)	Section-A	Section-B
Power Semiconductor Drives	YSV	Dr DGP
Power System Operation & Control	Dr JSD	Dr JSD

High Voltage DC Transmission Systems	MRE	Dr SVJK
Electrical Distribution Systems (PE-3)	VVSM	
High Voltage Engineering (PE-3)	VUR	
Soft Computing Techniques (OE-3)	RAK	RAK
DSP based Electrical Lab	AVK/DKK	AVK/DKK
Power Systems Simulation Lab	VVSM / GSR	VVSM / GSR
Power Electronic Drives Lab	MP/GBR	MP/GBR
I/I BEE(AICTE)	A/B	C/D/E
BEE	ML	
BEE	KS	
BEE	MK	
BEE	MVK	
BEE	MNSR	
Civil II/I (GR15)	A	B
ET	PPK	PPK

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

CLASS TIME TABLE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GRIET/PRIN/06/G/01/18-19 **Wef : 02 July 2018**

BTech - EEE - A **III year - I 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	PE		SWE		BREAK	MC	PE	PE
TUESDAY	SMI Lab / PE Lab A1 / A2					SWE	PE	PE
WEDNESDAY	PTS		SWE			MC	MC	EMI
THURSDAY	PE Lab / MC Lab A1 / A2					PTS	PTS	EMI
FRIDAY	MC Lab /SMI Lab A1 / A2					EMI	EMI	MC
SATURDAY	MC		PTS			SWE	EMI	EMI

Room No	
Theory	4501
Lab	SMI Lab - 4507 MC Lab - 4505 PE Lab - 4405

Class Incharge:	M Lohita

Subject Code	Subject Name	Faculty Code	Faculty name	Almanac	
GR15A3016	Power Transmission System	VVRR/MP	V Vijaya Rama Raju/M Prashanth	1st Spell of Instructions	02-07-2018 to 01-09-2018
GR15A2055	Microcontrollers	PK	P Prashanth	1st Mid-term Examinations	03-09-2018 to 05-09-2018
GR15A3018	Power Electronics	Dr TSK	Dr T Suresh Kumar	2nd Spell of Instructions	06-09-2018 to 24-10-2018
GR15A3017	Electrical Measurements and Instrumentation	UVL	U Vijaya Lakshmi	2nd Mid-term Examinations	25-10-2018 to 27-10-2018
GR15A3152	Solar & Wind Energy Systems	PSVD/Dr JP	P Sri Vidya Devi/Dr J Praveen	Preparation	29-10-2018 to 06-11-2018
GR15A3019	Sensors/Measurements and Instrumentation Lab	PSVD/PS	P Sri Vidya Devi /P Sirisha	End Semester Examinations (Theory/ Practicals) Regular / Supplementary	08-11-2018 to 08-12-2018
GR15A3020	Power Electronics Lab	PPK/MRE	P Praveen Kumar/M Rekha		
GR15A2059	Microcontrollers Lab	RAK/DKK	R Anil Kumar/ D Karuna Kumar	Commencement of Second Semester, A.Y	10/12/2018

HOD **Co-ordinator** **DAA**

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Wef : 02 July 2018

GRIET/PRIN/06/G/01/18-19

Wef

BTech - EEE - B

III year - I Semester

DAY/ HOUR	9:00 - 9:50	9:50 - 10:40	10:40 - 11:30	11:30 - 12:00	12:00-12:45	12:45-1:30	1:30 - 2:15	2:15 - 3:00
MONDAY	PE	PE	MC	BREAK	SMI Lab / PE Lab B1/ B2			
TUESDAY	PE	PE	MC		MCLab / SMI Lab B1/ B2			
WEDNESDAY	PE	PE	PTS		EMI		SWE	
THURSDAY	PTS	PTS	EMI		SWE		MC	
FRIDAY	PTS	PTS	EMI		MC		SWE	
SATURDAY	PTS	EMI	EMI		PELab / MC Lab B1/ B2			

Room No	
Theory	4404
Lab	SMI Lab - 4507 MC Lab - 4505 PE Lab - 4405

Class Incharge:	M Lohita

Subject Code	Subject Name	Faculty Code	Faculty name	Almanac	
GR15A3016	Power Transmission System	VVRR/MP	V Vijaya Rama Raju/M Prashanth	1st Spell of Instructions	02-07-2018 to 01-09-2018
GR15A2055	Microcontrollers	PK	P Prashanth	1st Mid-term Examinations	03-09-2018 to 05-09-2018
GR15A3018	Power Electronics	DKK	D Karuna Kumar	2nd Spell of Instructions	06-09-2018 to 24-10-2018
GR15A3017	Electrical Measurements and Instrumentation	UVL	U Vijaya Lakshmi	2nd Mid-term Examinations	25-10-2018 to 27-10-2018
GR15A3152	Solar & Wind Energy Systems	PSVD/Dr JP	P Sri Vidya Devi/Dr J Praveen	Preparation	29-10-2018 to 06-11-2018
GR15A3019	Sensors/Measurements and Instrumentation Lab	UVL/PS	U Vijaya Lakshmi/ P Sirisha	End Semester Examinations (Theory/ Practicals) Regular / Supplementary	08-11-2018 to 08-12-2018
GR15A3020	Power Electronics Lab	SN/MRE	Syed Sarfaraz Nawaz/ M Rekha		
GR15A2059	Microcontrollers Lab	PK/DKK	P Prashanth Kumar/ D Karuna Kumar	Commencement of Second Semester, A.Y	10/12/2018

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

FACULTY INDIVIDUAL TIME TABLE

Academic Year 2018-19 I SEM

	9		10		11		12	1			2	3	
MON								PE LAB(B-Sec)					
TUE													
WED	PE LAB(A-Sec)												
THU								PE LAB(B-Sec)					
FRI													
SAT	PE LAB(A-Sec)												

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSE OBJECTIVES

Academic **Y**ear : 2018-2019

Semester : I

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

Course/Subject: …Power Electronics Lab…… Course Code: …… **GR15A3020**…

Name of the Faculty: P.Praveen Kumar(Asst.Prof),M.Rekha(Asst.Prof), Dept.: ……EEE……

Syed Sarfaraz Nawaz(Assoc.Prof)

On completion of this Subject/Course the student shall be able to:

S.No	Objectives
1	To provide the students a deep insight in to the working of different switching devices with respect to their characteristics.
2	To analyze different converters and control with their applications.
3	To study advanced converters and switching techniques implemented in recent technology

Signature of HOD

Date:

Signature of faculty

Date:

Note: Please refer to Bloom's Taxonomy, to know the illustrative verbs that can be used to state the objectives.

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSE OUTCOMES

Academic **Y**ear : 2018-2019

Semester : I

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

Course/Subject: …… Power Electronics Lab …… Course Code: … **GR15A3020**…

Name of the Faculty:. P.Praveen Kumar(Asst.Prof),M.Rekha(Asst.Prof), Dept.: EEE……

Syed Sarfaraz Nawaz(Assoc.Prof)

The expected outcomes of the Course/Subject are:

S.No	Outcomes
1	Design and conduct simulation and experiments
2	Use the techniques, skills and modern engineering tools necessary for engineering practice.
3	Identify, formulate and sole engineering problems with simulation.
4	Simulate characteristics of SCR, MOSFET, IGBT.
5	Simulate Rectifiers, Choppers, AC voltage controller, Inverter, Cyclo-converter circuits
6	Perform cyclo converter circuits on hardware kits.
7	Demonstrate working of AC voltage controller circuit on hardware kit.

Signature of HOD

Date:

Signature of faculty

Date:

Note: Please refer to Bloom's Taxonomy, to know the illustrative verbs that can be used to state the outcomes.

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

GUIDELINES TO STUDY THE COURSE /SUBJECT

Academic **Y**ear : 2018-2019

Semester : I

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

Course/Subject: …… Power Electronics Lab ……Course Code: … **GR15A3020**

Name of the Faculty: P.Praveen Kumar(Asst.Prof), M.Rekha(Asst.Prof) …….Dept.: EEE.

Syed Sarfaraz Nawaz(Assoc.Prof)

Guidelines to study the Course/ Subject: ……..

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

POWER ELECTRONICS LAB SYLLABUS

LIST OF EXPERIMENTS:

SIMULATION CIRCUITS:

Task1: 1-Phase Half Wave Controlled Converter With R, RL& RLE load

Task2: 1-Phase Semi Converter With R, RL & RLE-Load

Task3: 1-Phase Full Controlled Converter With R, RL & RLE–Load Task4: 1-Phase Ac Voltage Controller With R, RL &RLE – Load

Task5: 1-Phase Cycloconverter

Task6: Phase Half & Full Bridge Inverter

Task7: 3- Phase Full Controlled Converter with R, RL & RLE –Load Task8: 3-Phase Bridge Inverter

Task9: Buck converter

Task10: Boost converter

HARDWARE:

Task11: Thyristorised Drive for PMDC Motor with Speed Measurement and Closed Loop Control

Task12: IGBT Based 4 Quadrant Drive for PMDC Motor with Speed Measurement & Closed Loop Control

Task13: Three Phase Input Thyristorised Drive For Dc Motor With Closed Loop Control

Task14: Closed Loop control of Dc Motor Using Three Phase Fed Four Quadrant Chopper Drive

Task15: Speed Control of Three Phase Wound Induction Motor

Task16: Single Phase Fully Controlled Bridge Converter

Task17: Single Phase Half Controlled Bridge Converter

Task18: Single Phase Cyclo Converter

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSE SCHEDULE

Academic **Y**ear : 2018-2019

Semester : I

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

Course/Subject: … Power Electronics Lab Course Code: … **GR15A3020**

Name of the Faculty: .P.Praveen Kumar(Asst.Prof),M.Rekha (Asst.Prof), Dept.: …EEE…

Syed Sarfaraz Nawaz(Assoc.Prof)

S.No	Description	Total No.of Periods
1	Introduction to MATLAB	**1**
2	1-Phase Half Wave Controlled Converter With ,RL&RLE Loads	2
3	1-Phase Semi Converter With R,RL&RLE Loads	3
4	1-Phase Full Controlled Converter With R,RL&RLE Loads	3
5	1-Phase AC Voltage Controller With R,RL&RLE Loads	3
6	1-Phase Cyclo converter	3
7	1-Phase Half and Full Bridge Inverter	3
8	3-Phase Full Controlled Converter With R,RL,RLE-Load	3
9	3-Phase Bridge Inverter	3
10	Buck Converter	3
11	Boost converter	3
12	Thyristorised drive for PMDC motor with speed measurement and closed loop control	3
13	IGBT based 4 quadrant drive for PMDC motor with speed measurement &closed loop control	3
14	Three phase input Thyristorised drive for DC motor with closed loop control	3
15	Closed loop control of DC motor using three phase fed four quadrant Chopper Drive	3
16	Speed control of Three phase wound induction motor	3
17	Speed control of Three phase wound induction motor	3
18	Single phase fully controlled bridge converter	3
19	Single phase half controlled bridge converter	3
20	Single phase Cyclo converter	3

Total No. of Instructional periods available for the course: …..54…. Periods

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SCHEDULE OF INSRTUCTIONS COURSE PLAN

Academic **Y**ear : 2018-2019

Semester : I

Name of the Program: B.Tech …… Year: ……III…….. Section: A

Course/Subject: …… Power Electronics Lab …… Course Code: **GR15A3020**…

Name of the Faculty: P.Praveen Kumar(Asst.Prof),M.Rekha(Asst.Prof)., Dept.: …EEE……

Syed Sarfaraz Nawaz (Assoc.Prof)

Expt.No.	No. of Periods	Topics / Sub-Topics	Objectives & Outcome	References (Text Book, Journal…)
1.	1	Introduction to MATLAB		Modelling and simulation by Dr.Shailender Jain Manual
2.	2	1-Phase Half Wave Controlled Converter With R,RL&RLE Loads	1,2&1,3,6	Pg 251 in Power Electronics by P.S.Bimbra &Power Electronics Manual
3. 3.	2	1-Phase SemiConverter With R,RL&RLE Loads	1,2&1,3,6	Pg 280 in Power Electronics by P.S.Bimbra Manual
4.	2	1-Phase Full Controlled Converter With R,RL&RLE Loads	1,2&1,3,6,	Pg 265, PowerElectronics by P. S.Bimbhra &Power Electronics Manual
5.	2	1-Phase AC Voltage Controller With R,RL&RLE Loads	1,2&1,3,6	Pg 511, Power Electronics by P. S.Bimbhra &Power Electronics Manual
6.	2	1-Phase Cycloconverter	1,2&1,3,7	Pg 534, Power Electronics by P. S.Bimbhra &Power Electronics Manual
7.	2	1-Phase Half and Full Bridge Inverter	1,2&1,3,6	Pg 416, Power Electronics by P. S.Bimbhra &Power Electronics Manual
9.	1	Internal Viva		

10.	2	3-Phase Full Controlled Converter With R,RL,RLE-Load	1,2&1,3,6	Pg 295, Power Electronics by P. S.Bimbhra &Power Electronics Manual
11.	2	3-Phase Bridge Inverter	1,2&1,3,6	Pg 442, Power Electronics by P. S.Bimbhra &Power Electronics Manual
12.	2	Buck Converter	1,2&1,3,6	Pg 348, Power Electronics by P. S.Bimbhra &Power Electronics Manual
13.	2	Boost Converter	1,2&1,3,6	Pg351,Power Electronics&Power ElectronicsManual
14.	2	Thyristorised drive for PMDC motor with speed measurement and closed loop control	1,2,3&1,2	Power Electronics Manual
15.	2	IGBT based 4 quadrant drive for PMDC motor with speed measurement &closed loop control	1,2,3&1,2	Power Electronics Manual
16.	2	Three phase input Thyristorised drive for DC motor with closed loop control	1,2,3&1,2	Power Electronics Manual
17.	2	Speed control of Three phase wound induction motor	1,2,3&1,2	Power Electronics Manual
18.	1	Single phase fully controlled bridge converter	1,2&1,2	Power Electronics Manual
19.	1	Single phase half controlled bridge converter	1,2&1,2	Power Electronics Manual
20.	1	Single phase Cyclo converter	1,2&2,7	Powe rElectronics Manual

Signature of HOD

Signature of faculty

Date:

Date:

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED IN BOLD

3. MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

EVALUATION STRATEGY

Academic **Y**ear : 2018-2019

Semester : I

Name of the Program: B.Tech …… Year: ……III…… Section: A/B
Course/Subject: …… Power Electronics Lab …… Course Code:. **GR15A3020**

Name of the Faculty: P.Praveen Kumar(Asst.Prof), M.Rekha(Asst.Prof).,
Dept.:……EEE…….Syed Sarfaraz Nawaz(Assoc.Prof)

1. TARGET:

   a) Percentage for pass:

   b) Percentage of class:

2. COURSE PLAN & CONTENT DELIVERY

(Please write how you intend to cover the contents: i.e., coverage of Units/Lessons by lectures, design, exercises, solving numerical problems, demonstration of models, model preparation, experiments in the Lab., or by assignments, etc.)

2.1 Demonstrating the experiments

2.2 Using softwares like PSim and Matlab in laptops/pc's

2.3 Using hardware kits

3. METHOD OF EVALUATION

3.1 ☐ Continuous Assessment Examinations (CAE-I, CAE-II)

3.2 ☐ Internal Exam

3.3 ☐ Mini Projects

3.4 ☐ Quiz

3.5 ☐ Semester/End Examination

3.6 ☐ Others

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

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

RESULT ANALYSIS

Year	Total No. Of Students appeared	Total No. of Students Passed	No. of Students Failed	GRADE =10	GRADE= 9	GRADE=8	GRADE= 7	GRADE= 6	GRADE= 5	GRADE= 4	PASS PERCENTAGE(%)
2018-19	142	139	02	00	01	02	07	27	31	72	98.59
2017-18	140	138	02	00 (<60 %)	03 (60-70%)	00 (>70 %)	01	18	11	105	98.57
2016-17	124	122	02	00 (<60 %)	07 (60-70%)	105 (>70 %)					98.38

Faculty

Lab	Batch	Faculty
POWER ELECTRONICS AND SIMULATION LAB	2018-19	P.PRAVEEN KUMAR,SYED SARAFARAZ NAWAZ, M.REKHA
POWER ELECTRONICS AND SIMULATION LAB	2017-18	DR.T.SURESH KUMAR, SYED SARFARAZ NAWAZ, M REKHA
POWER ELECTRONICS AND SIMULATION LAB	2016-17	G SWAPNA, M REKHA,S RADHIKA

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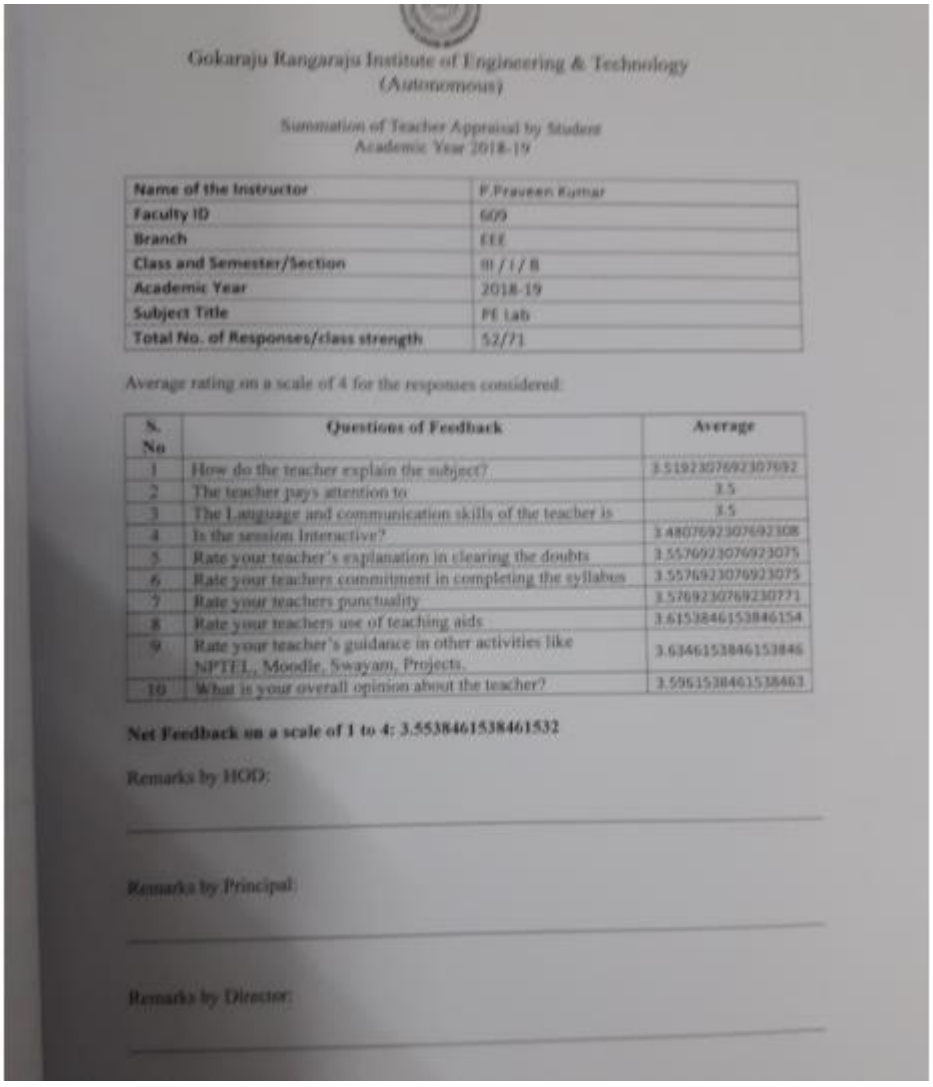
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

FEEDBACK FROM STUDENTS



Gokaraju Rangaraju Institute of Engineering & Technology
(Autonomous)

Summation of Teacher Appraisal by Student
Academic Year 2018-19

Name of the Instructor	P.Praveen Kumar
Faculty ID	609
Branch	EEE
Class and Semester/Section	III / I / B
Academic Year	2018-19
Subject Title	PE Lab
Total No. of Responses/class strength	52/71

Average rating on a scale of 4 for the responses considered:

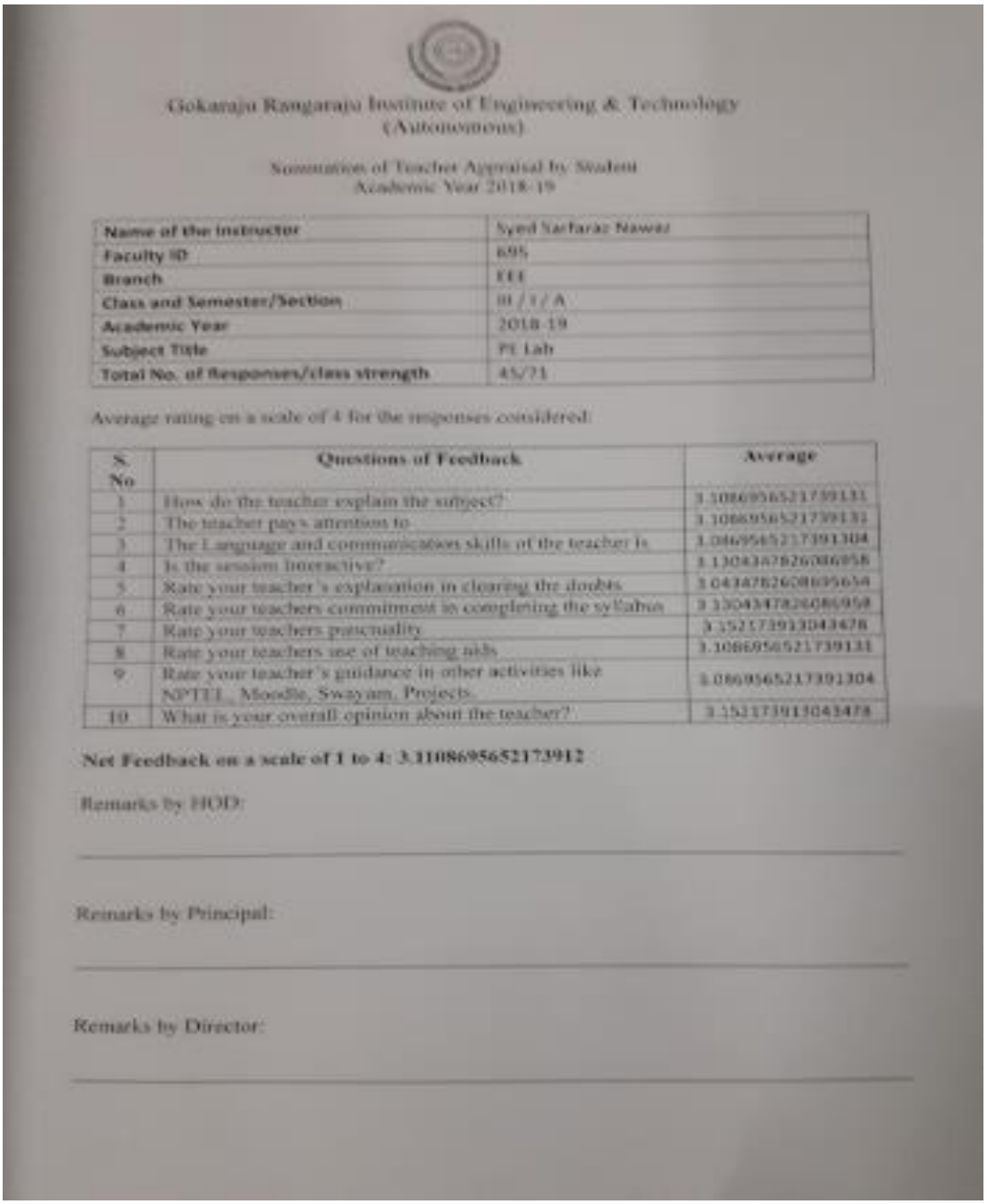
S. No	Questions of Feedback	Average
1	How do the teacher explain the subject?	3.5192307692307692
2	The teacher pays attention to	3.5
3	The Language and communication skills of the teacher is	3.5
4	Is the session Interactive?	3.4807692307692308
5	Rate your teacher's explanation in clearing the doubts	3.5576923076923075
6	Rate your teachers commitment in completing the syllabus	3.5576923076923075
7	Rate your teachers punctuality	3.5769230769230771
8	Rate your teachers use of teaching aids	3.6153846153846154
9	Rate your teacher's guidance in other activities like NPTEL, Moodle, Swayam, Projects.	3.6346153846153846
10	What is your overall opinion about the teacher?	3.5961538461538463

Net Feedback on a scale of 1 to 4: 3.5538461538461532

Remarks by HOD:

Remarks by Principal:

Remarks by Director:



Gokaraju Rangaraju Institute of Engineering & Technology
(Autonomous)

Summation of Teacher Appraisal by Student
Academic Year 2018-19

Name of the Instructor	Syed Sarfaraz Nawaz
Faculty ID	695
Branch	EEE
Class and Semester/Section	III / I / A
Academic Year	2018-19
Subject Title	PE Lab
Total No. of Responses/class strength	45/71

Average rating on a scale of 4 for the responses considered:

S. No	Questions of Feedback	Average
1	How do the teacher explain the subject?	3.1086956521739131
2	The teacher pays attention to	3.1086956521739131
3	The Language and communicatoon skills of the teacher is	3.0869565217391304
4	Is the session Interactive?	3.1304347826086958
5	Rate your teacher's explanation in clearing the doubts	3.0434782608695654
6	Rate your teachers commitment to completing the syllabus	3.1304347826086958
7	Rate your teachers punctuality	3.152173913043478
8	Rate your teachers use of teaching aids	3.1086956521739131
9	Rate your teacher's guidance in other activities like NPTEL, Moodle, Swayam, Projects.	3.0869565217391304
10	What is your overall opinion about the teacher?	3.152173913043478

Net Feedback on a scale of 1 to 4: 3.1108695652173912

Remarks by HOD:

Remarks by Principal:

Remarks by Director:

Gokaraju Rangaraju Institute of Engineering & Technology
(Autonomous)

Summation of Teacher Appraisal by Student
Academic Year 2018-19

Name of the Instructor	M Rekha
Faculty ID	933
Branch	EEE
Class and Semester/Section	III / I / A
Academic Year	2018-19
Subject Title	PE Lab
Total No. of Responses/class strength	45/71

Average rating on a scale of 4 for the responses considered:

S. No	Questions of Feedback	Average
1	How do the teacher explain the subject?	3.1956521739130435
2	The teacher pays attention to	3.1956521739130435
3	The Language and communication skills of the teacher is	3.2826086956521738
4	Is the session Interactive?	3.152173913043478
5	Rate your teacher's explanation in clearing the doubts	3.1956521739130435
6	Rate your teachers commitment in completing the syllabus	3.2173913043478262
7	Rate your teachers punctuality	3.2391304347826089
8	Rate your teachers use of teaching aids	3.1956521739130435
9	Rate your teacher's guidance in other activities like NPTEL, Moodle, Swayam, Projects.	3.152173913043478
10	What is your overall opinion about the teacher?	3.2173913043478262

Net Feedback on a scale of 1 to 4: 3.2043478260869565