



PRESIDENCY UNIVERSITY

(Private University Estd. in Karnataka State by Act No. 41 of 2013)

PU-SoE-EEE 2020-21

Ref. No. PU/ SoE/ EEE /2020-21/VAC/CIR/01

26-12-2020

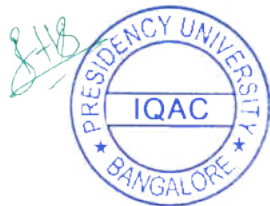
CIRCULAR

Sub: VALUE ADDED COURSES – OFFERED BY THE DEPT. OF EEE

This is to inform all the students of the 3rd, 5th, and 7th semesters of B. Tech (EEE), the following value-added courses will be offered by the department during the AY 2020-21 (Fall Semester):

Sl. No	Course Code	Course Name	Name of the Faculty
1.	EEEV001	Introduction to Multilevel Inverters	Dr. Snehaprabha.T.V & Mr. Sarin M V
2.	EEEV002	Renewable Energy and Green Building Entrepreneurship	Dr. Joshi Manohar
3.	EEEV003	MATLAB Programming and Simulink for Power Electronic converters	Mr.K.Sreekanth Reddy
4.	EEEV004	Importance of Battery Management Systems	Mr Bishakh Paul
5.	EEEV005	AutoCAD for Electrical Engineers	Mr. Ravi V Angadi
6.	EEEV006	Solar Cells - Past, Present and Future	Ms.Ramya K
7.	EEEV008	Hybrid Energy Storage System	Mr. Nageswara Rao A
8.	EEEV009	Fundamentals of Electric & Hybrid Electric Vehicles	Ms. Ragasudha C P
9.	EEEV010	Pulse Width Modulation for Multilevel Converters	Mr. Sarin M V

All are informed to contact the respective course ICs of VAC based on your choice. The duration of the course is 30 hours. All the students are encouraged to attend VAC as per the course instructor's schedule. A certificate will be awarded after successful completion of the course.



City Office: University House, 8/1, King Street, Richmond Town, Bengaluru - 560025

Campus: Presidency University, Itgalpura, Rajanukunte, Bengaluru - 560064

Phone: + 80 4925 5533 / 5599 Email ID: info@presidencyuniversity.in

www.presidencyuniversity.in



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Odd Semester 2020-2021

Course Code:	EEEEV001
Course Name:	Introduction to Multilevel Inverters
Area of Specialization:	Electrical Engineering
Course Description:	This course contains a detailed explanation of Basics of Inverters, Principles of operation of single-phase and three-phase DC-AC inverters, Space phasors and alpha-beta reference frame, Space vector modulation for three-phase inverters, Current control mode of inverters. Modeling and Control of Grid-Connected Inverters. Modeling of three-phase grid-connected inverters, Closed-loop control of three-phase inverters. Multilevel Converters Basics of multilevel converters, Various multilevel converter topologies, Modular Multilevel Converters. Basics of cascaded half-bridge and full-bridge modules, Control aspects of the modular multilevel converter, Circulating current control. Control of Grid-Connected Modular Multilevel Converters Control of grid-connected modular multilevel converter, Control of the MMC for High-Voltage DC (HVDC) transmission
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. The basics of operation and modulation techniques of various DC-AC voltage-sourced converters (VSCs), e.g., the conventional two-level converter and various multi-level VSCs. CO.2. How to develop closed-loop control strategies for proper operation of various grid-connected VSCs under both steady-state and transient operating conditions CO.3. Ways to recognize the salient features of the Modular Multilevel Converter (MMC) as compared with other multilevel VSCs. CO.4. The operational/control challenges associated with the MMC
Course Content:	Module 1: Basics of Inverters Principles of operation of single-phase and three-phase DC-AC inverters, Space phasors and alpha-beta reference frame, Space vector modulation for three-phase inverters, Current control mode of inverters Module 2: Modeling and Control of Grid-Connected Inverters Modeling of three-phase grid-connected inverters, Closed-loop control of three-phase inverters Module 3: Multilevel Converters Basics of multilevel converters, Various multilevel converter topologies Module 4: Modular Multilevel Converters Basics of cascaded half-bridge and full-bridge modules, Control aspects of the modular multilevel converter, Circulating current control Module 5: Control of Grid-Connected Modular Multilevel Converters Control of grid-connected modular multilevel converter, Control of the MMC for High-Voltage DC (HVDC) transmission
Instructor in charge:	Mr. Sarin MV, Dr. Sneha Prabha T V





School of Engineering
Department of Electrical & Electronics Engineering

AY 2020-21 (Odd Sem)

Value added Course(VAC) Name and Code: Introduction to Multilevel Inverters & EEEV001

Name of the Instructor: Mr. Sarin MV, Dr. Sneha Prabha T V

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	2016EEE006	TALANK S	30	22	73
2	2016EEE014	ASHISH PANDIT R	30	20	67
3	2016EEE021	RANGASWAMY H	30	26	87
4	2016EEE031	MERIGA MAMATHA	30	22	73
5	20171EEE0003	ADIL JEBRAN	30	25	83
6	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	30	20	67
7	20171EEE0024	KEERTHANA D	30	25	83
8	20171EEE0035	MELVIN MOSES YOUNG	30	19	63
9	20171EEE0042	NEERUGATTI SUNIL	30	29	97
10	20171EEE0049	PUNEETH KUMAR C	30	20	67
11	20171EEE0057	S SHALINI	30	27	90
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	30	22	73
13	20181LEE0018	KAVYA M	30	24	80
14	20181EEE0004	AMULYA A PUROHIT	30	24	80
15	20181EEE0010	BATHALA PRASHANTH	30	25	83
16	20181EEE0016	G SAIKUMAR	30	22	73
17	20181EEE0021	JAHNAVI J P	30	26	87
18	20181EEE0028	KESHAV GANESH	30	26	87
Signature of Course Instructor					





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheet

Course Code :	EEEEV001	Academic Year :			2020-21		
Course Name :	Introduction to Multilevel Inverters			Semester :		Odd Semester	
				Instructor-in-Charge Name:		Mr. Sarin MV, Dr. Sneha Prabha T V	
				Instructor-in-Charge Employee ID :		PUNIV01347	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	2016EEE006	TALANK S	SoE	73	68	Yes	
2	2016EEE014	ASHISH PANDIT R	SoE	67	AB	No	Not Eligible for Certificate
3	2016EEE021	RANGASWAMY H	SoE	87	72	Yes	
4	2016EEE031	MERIGA MAMATHA	SoE	73	73	Yes	
5	20171EEE0003	ADIL JEBRAN	SoE	83	78	Yes	
6	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	SoE	67	AB	No	Not Eligible for Certificate
7	20171EEE0024	KEERTHANA D	SoE	83	85	Yes	
8	20171EEE0035	MELVIN MOSES YOUNG	SoE	63	86	No	Not Eligible for Certificate
9	20171EEE0042	NEERUGATTI SUNIL	SoE	97	87	Yes	
10	20171EEE0049	PUNEETH KUMAR C	SoE	67	AB	No	Not Eligible for Certificate
11	20171EEE0057	S SHALINI	SoE	90	69	Yes	
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	SoE	73	76	Yes	
13	20181LEE0018	KAVYA M	SoE	80	78	Yes	
14	20181EEE0004	AMULYA A PUROHIT	SoE	80	55	Yes	
15	20181EEE0010	BATHALA PRASHANTH	SoE	83	63	Yes	
16	20181EEE0016	G SAIKUMAR	SoE	73	65	Yes	



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17	20181EEE0021	JAHNAVI J P	SoE	87	64	Yes	
18	20181EEE0028	KESHAV GANESH	SoE	87	78	Yes	

Name of Course

Mr. Sarin MV, Dr. Sneha Prabha T V

Instructor :

Employee ID of Course

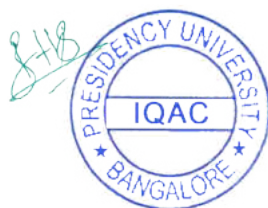
PUNIV01347

Instructor:

Signature of Instructor-in-charge

Signature of HoD

Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kajurubank, Yalahanka, Bengaluru - 56





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Odd Semester 2020-2021

Course Code:	EEEV002
Course Name:	Renewable Energy and green building Entrepreneurship
Area of Specialization:	Electrical Engineering
Course Description:	This course explains various business opportunities in renewable energy and green building. This course presents the significant growth in the renewable energy and green building sectors, challenges and criticisms of both sectors, along with counterpoints and solutions. It also presents the road map for entrepreneurship..
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. List out the renewable energy sources CO.2. Describe the concept of green building CO.3. Explain the process of the bussiness model CO.4. Develop a project using real time data
Course Content:	Module No 1: his course reviews various renewable energy sources and the concept of green building, discuss how entrepreneurship is a path for solving big problems that matter. [10- Hours] Module No 2: Lectures illustrate that entrepreneurship is NOT just about startups -- it's also about internal innovation at larger organizations. It explains various business opportunities in renewable energy and green building. [10- Hours] Module No 3: This course presents the significant growth in the renewable energy and green building sectors, challenges and criticisms of both sectors, along with counterpoints and solutions. [10- Hours]
Instructor In-charge:	Dr. V Joshi Manohar





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Department of Electrical & Electronics Engineering

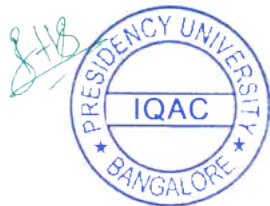
AY 2020-21 (Odd Sem)

**Value added Course(VAC) Name and Code: Renewable Energy and green building
Entrepreneurship & EEEV002**

Name of the Instructor: Dr. V Joshi Manohar

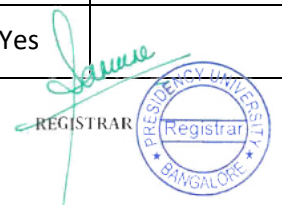
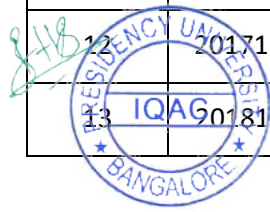
Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20181LEE0017	RAVANA K N	30	22	73.33
2	20181EEE0019	HANUMANTH KUMAR A	30	27	90.00
3	20181EEE0025	K SHRAVAN KUMAR	28	23	82.14
4	20181EEE0055	SATISH KUMAR	30	26	86.67
5	20181EEE0064	SURABHI M Y	30	27	90.00
6	20191COM0046	DARURU PREM KUMAR CHOWDARY	30	25	83.33
7	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	30	15	50.00
8	20171EEE0024	KEERTHANA D	30	22	83.33
9	20171EEE0035	MELVIN MOSES YOUNG	30	17	56.67
10	20171EEE0042	NEERUGATTI SUNIL	30	24	80.00
11	20171EEE0049	PUNEETH KUMAR C	30	27	90.00
12	20171EEE0057	S SHALINI	30	27	90.00
13	20181LEE0010	CHENTHOTI BHANUPRAKASH	30	24	80.00
Signature of Course Instructor					



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheet

Course Code :	EEEE002		Academic Year :			2020-21	
Course Name :	Energy and green building Entrepreneurship		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Dr. V Joshi Manohar	
			Instructor-in-Charge Employee ID :			PUNIV01153	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20181LEE0017	RAVANA K N	SoE	73.33	65	Yes	
2	20181EEE0019	HANUMANTH KUMAR A	SoE	90.00	90	Yes	
3	20181EEE0025	K SHRAVAN KUMAR	SoE	82.14	85	Yes	
4	20181EEE0055	SATISH KUMAR	SoE	86.67	65	Yes	
5	20181EEE0064	SURABHI M Y	SoE	90.00	74	Yes	
6	20191COM0046	DARURU PREM KUMAR CHOWDARY	SoE	83.33	56	Yes	
7	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	SoE	50.00	Ab	No	Not Eligible for Certificate
8	20171EEE0024	KEERTHANA D	SoE	83.33	76	Yes	
9	20171EEE0035	MELVIN MOSES YOUNG	SoE	56.67	Ab	No	Not Eligible for Certificate
10	20171EEE0042	NEERUGATTI SUNIL	SoE	80.00	43	Yes	
11	20171EEE0049	PUNEETH KUMAR C	SoE	90.00	57	Yes	
12	20171EEE0057	S SHALINI	SoE	90.00	60	Yes	
13	20181LEE0010	CHENTHOTI BHANUPRAKASH	SoE	80.00	78	Yes	





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Name of Course

Instructor :

Employee ID of Course

Instructor:

Dr. V Joshi Manohar

PUNIV01153

Signature of Instructor-in-charge

Signature of HoD

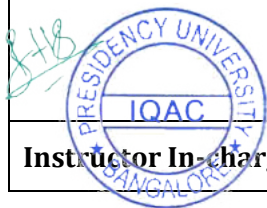
Head of the Department,
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kajuraba, Yalahanka, Bengaluru - 56





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Odd Semester 2020-2021

Course Code:	EEEEV003
Course Name:	MATLAB Programming and Simulink for Power Electronic converters
Area of Specialization:	Electrcal Engineering
Course Description:	MATLAB is a leading software in numerical computing, building algorithms and Simulink tool for simulating the converters. In this will introduce some Elementary Mathematics Problems, Matrices, data import analysis, the simulation of different power converter circuits and modelling of motors using MATLAB Simulink.
Course Outcome:	On successful completion of the course, the student shall be able to: 01. Recognize the importance of MATLAB and Its capabilities 02. Explain the simulation of AC-DC circuits using Simulink in MATLAB 03. Demonstrate the simulation AC-AC converters as single phase AC choppers using Simulink in MATLAB 04. Show the model of DC machine using MATLAB Simulink
Course Content:	Module 1: Introduction To Array Programming, Creating Vectors & Matrices, Basic Operations, Arithmetic Operations In MATLAB, Import Spreadsheets from Excel To MATLAB, Differentiation and integration In MATLAB, Solving One Non Linear Equation In MATLAB Using zero Function [10 hrs] Module 2: Simulation Of Bridge Controlled Rectifier, Simulation Of Buck and Boost regulator [8 hrs] Module 3: Simulation Of Single Phase and three phase Bridge Inverter, Simulation Of Charging And Discharging Capacitor DC Motor Modelling At No Load Using Simulink In MATLAB.[12 hrs]
Instructor In-charge:	Mr. K Sreekanth Reddy



**School of Engineering
Department of Electrical & Electronics Engineering**

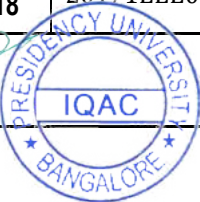
AY 2020-21 (Odd Sem)

Value added Course(VAC) Name and Code: MATLAB Programming and Simulink for Power Electronic converters & EEEV003

Name of the Instructor: Mr. K Sreekanth Reddy

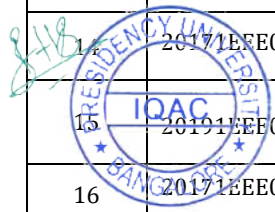
Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20171CSE0003	ASHISH SINGH BHUMIJ	30	30	100.00
2	20171EEE0046	PATAN ISMAIL ALLI KHAN	30	25	83.33
3	20171CSE0723	TEJASWINI C	30	22	73.33
4	20191EEE0035	SAGAR B	30	30	100.00
5	20191EEE0046	SOURODIPTTO MONDAL	30	24	80.00
6	20191EEE0011	KEERTHANA B R	30	27	90.00
7	20191EEE0058	TOUFEEQ TOUFEEQ	30	27	90.00
8	20191EEE0059	SHABBEER AHMAD MUJAVAR	30	27	90.00
9	20191EEE0029	PRAJWAL T R	30	30	100.00
10	20171EEE0073	VISHNU V	30	25	83.33
11	20171EEE0068	SUPRITH B	30	25	83.33
12	20191ECE0288	SHAIK MOHASEEN	30	30	100.00
13	20191EEE0030	PRATHVIRAJ PRATHVIRAJ	30	22	73.33
14	20171EEE0037	MOHAMMED SALEHA RAFI	30	22	73.33
15	20191EEE0047	SRINIDHI R	30	2	6.67
16	20171EEE0003	ADIL JEBRAN	30	28	93.33
17	20191EEE0023	NAVYA N	30	25	83.33
18	20171EEE0069	SURAJ J R	30	2	6.67
Signature of Course Instructor			K. Sreekanth Reddy		



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheet

Course Code :	EEEEV003		Academic Year :			2020-21	
Course Name :	MATLAB Programming and Simulink for Power Electronic converters		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Mr. K Sreekanth Reddy	
			Instructor-in-Charge Employee ID :			PUNIV00489	
S. No	Roll No	Name	School (e.g. SoE/SoL.etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remarks
1	20171CSE0003	ASHISH SINGH BHUMIJ	SoE	100	54	Yes	
2	20171EEE0046	PATAN ISMAIL ALLI KHAN	SoE	83.33	72	Yes	
3	20171CSE0723	TEJASWINI C	SoE	73.33	62	Yes	
4	20191EEE0035	SAGAR B	SoE	100	53	Yes	
5	20191EEE0046	SOURODIPTTO MONDAL	SoE	80	81	Yes	
6	20191EEE0011	KEERTHANA B R	SoE	90	54	Yes	
7	20191EEE0058	TOUFEEQ TOUFEEQ	SoE	90	52	Yes	
8	20191EEE0059	SHABBEER AHMAD MUJAVAR	SoE	90	57	Yes	
9	20191EEE0029	PRAJWAL T R	SoE	100	67	Yes	
10	20171EEE0073	VISHNU V	SoE	83.33	81	Yes	
11	20171EEE0068	SUPRITH B	SoE	83.33	60	Yes	
12	20191ECE0288	SHAIK MOHASEEN	SoE	100	75	Yes	
13	20191EEE0030	PRATHVIRAJ PRATHVIRAJ	SoE	73.33	60	Yes	
14	20171EEE0037	MOHAMMED SALEHA RAFI	SoE	73.33	43	Yes	
15	20191EEF0047	SRINIDHI R	SoE	6.67	Ab	No	Not Eligible for Certificate
16	20171EEE0003	ADIL JEBRAN	SoE	93.33	63	Yes	
17	20191EEE0023	NAVYA N	SoE	83.33	23	No	Not Eligible for Certificate





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18	20171EEE0069	SURAJ J R	SoE	6.67	Ab	No	Not Eligible for Certificate
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Name of Course Instructor : Mr. K Sreekanth Reddy
Employee ID of Course Instructor: PUNIV00489

Signature of Instructor-in-charge

Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
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Kajjankunte, Yalahanka, Bengaluru - 56





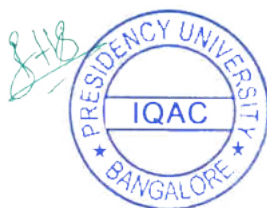
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School of Engineering
Department of Electrical & Electronics Engineering

Value Added Course offered during the Odd Semester AY 2020-21

Course Code:	EEEV004
Course Name:	Importance of Battery Management Systems
Area of Specialization:	Power Systems
Course Description:	A battery management system (BMS) is any electronic system that manages a rechargeable battery (cell or battery pack), such as by protecting the battery from operating outside its safe operating area, monitoring its state, calculating secondary data, reporting that data, controlling its environment, authenticating it and / or balancing it.
Course Outcome:	On successful completion of the course, the student shall be able to: 01 List the different parts of Battery management System 02 Explain the function of the parts of Battery management system 03 List the algorithms used for Battery Management System 04 Solve the battery problems.
Course Content:	Module 1: Overview of energy storage systems and their importance, Introduction to Battery Management Systems (BMS), Evolution and historical development of BMS, Importance of BMS in modern energy storage applications [10 Hours] Module 2: Basic principles of electrochemistry in batteries, Types of rechargeable batteries (Lead-acid, Lithium-ion, etc.), Characteristics and limitations of different battery chemistries, Battery performance metrics (Capacity, voltage, current, efficiency, etc.) [10 Hours] Module 3: Understanding battery safety and potential risks, Causes and prevention of battery failures (overcharging, over-discharging, overheating, etc.), Battery aging mechanisms and their impact on performance, Role of BMS in ensuring battery safety and prolonging battery life [10 Hours]
Instructor In-charge:	Mr. Bishakh Paul





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School of Engineering
Department of Electrical & Electronics Engineering
AY 2020-21 (Odd Sem)
Value added Course(VAC) Name and Code: Importance of Battery Management Systems & EEEV004
Name of the Instructor: Mr. Bishakh Paul
Attendance Sheet

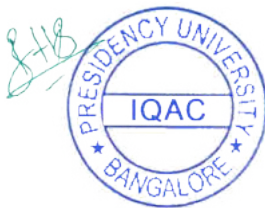
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20191LEE0011	RAKESH LEE	30	24	80.00
2	20181LEE0013	VARDHAN B O	30	24	80.00
3	20171EEE0007	AKSHAY B	30	26	86.67
4	20171EEE0016	EMILY JOSEPH	30	25	83.33
5	20171EEE0017	EPHNOTH M	30	24	80.00
6	20171EEE0040	NAVEEN KUMAR A	30	25	83.33
7	20171EEE0070	SYED MUIZZ AHMED	30	23	76.67
8	20171PET0019	AYITARAJU HARSHITH	30	25	83.33
9	20181EEE0014	DEEKSHITHA N	30	24	80.00
10	20181EEE0028	KESHAV GANESH	30	24	80.00
11	20181EEE0070	WASEEL KHAN	30	25	83.33
12	20181EEE9002	HEMANTH H L	30	24	80.00
13	20181LEE0003	HEMANTH KUMAR M L	30	23	76.67
14	20181LEE0010	CHENTHOTI BANUPRAKASH	30	23	76.67
15	20181LEE0020	MD ZAFER EQBAL	30	24	80.00
16	20191ECE0020	ANDRA ABHISHEK	30	24	80.00
17	20191ECE0057	BONTHA VENKATA SAI VAMSI	30	26	86.67
18	20191ECE0340	UDAY GOWDA N B	30	26	86.67
19	20191ECE0366	YASHAS H R	30	24	80.00
20	20191ECE9006	SAI DHEERAJ	30	24	80.00
21	20191EEE0001	ABHISHEK C	30	23	76.67
22	20191EEE0010	EASHWAR V	30	25	83.33
23	20191EEE0024	NAVYA SHREE M	30	24	80.00
24	20191EEE0028	PRAJWAL HOSAMANI	30	24	80.00
25	20191EEE0040	SAPNA N	30	22	73.33
26	20191EEE0042	SHARANYA P C	30	24	80.00



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27	20191EEE0044	SHWETHA N	30	24	80.00
28	20191EEE0054	JUTURU VIJAY KUMAR REDDY	30	24	80.00
29	20181EEE9005	SAGAR DAYI	30	24	80.00
Signature of Course Instructor					





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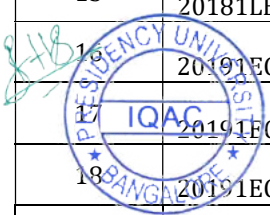
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School of Engineering

Department of Electrical & Electronics Engineering

Value Added Course Marksheet

Course Code :	EEEE004		Academic Year :			2020-21	
Course Name :	Pulse Width Modulation for Multilevel Converters		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Mr. Bishakh Paul	
			Instructor-in-Charge Employee ID :			PUNIV00895	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191LEE0011	RAKESH LEE	SOE	80.00	60	Y	
2	20181LEE0013	VARDHAN B O	SOE	80.00	60	Y	
3	20171EEE0007	AKSHAY B	SOE	86.67	100	Y	
4	20171EEE0016	EMILY JOSEPH	SOE	83.33	100	Y	
5	20171EEE0017	EPHNOTH M	SOE	80.00	60	Y	
6	20171EEE0040	NAVEEN KUMAR A	SOE	83.33	84	Y	
7	20171EEE0070	SYED MUIZZ AHMED	SOE	76.67	60	Y	
8	20171PET0019	AYITARAJU HARSHITH	SOE	83.33	100	Y	
9	20181EEE0014	DEEKSHITHA N	SOE	80.00	60	Y	
10	20181EEE0028	KESHAV GANESH	SOE	80.00	76	Y	
11	20181EEE0070	WASEEL KHAN	SOE	83.33	60	Y	
12	20181EEE9002	HEMANTH H L	SOE	80.00	68	Y	
13	20181LEE0003	HEMANTH KUMAR M L	SOE	76.67	92	Y	
14	20181LEE0010	CHENTHOTI BANUPRAKASH	SOE	76.67	60	Y	
15	20181LEE0020	MD ZAFER EQBAL	SOE	80.00	60	Y	
16	20191ECE0020	ANDRA ABHISHEK	SOE	80.00	60	Y	
17	20191ECE0057	BONTHA VENKATA SAI VAMSI	SOE	86.67	60	Y	
18	20191ECE0340	UDAY GOWDA N B	SOE	86.67	60	Y	
19	20191ECE0366	YASHAS H R	SOE	80.00	60	Y	





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20	20191ECE9006	SAI DHEERAJ	SOE	80.00	60	Y	
21	20191EEE0001	ABHISHEK C	SOE	76.67	92	Y	
22	20191EEE0010	EASHWAR V	SOE	83.33	76	Y	
23	20191EEE0024	NAVYA SHREE M	SOE	80.00	84	Y	
24	20191EEE0028	PRAJWAL HOSAMANI	SOE	80.00	100	Y	
25	20191EEE0040	SAPNA N	SOE	73.33	60	Y	
26	20191EEE0042	SHARANYA P C	SOE	80.00	68	Y	
27	20191EEE0044	SHWETHA N	SOE	80.00	84	Y	
28	20191EEE0054	JUTURU VIJAY KUMAR REDDY	SOE	80.00	60	Y	
29	20181EEE9005	SAGAR DAYI	SOE	80.00	60	Y	

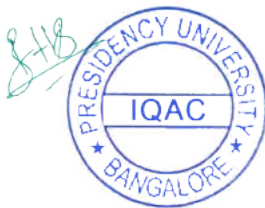
Name of Course Instructor : Mr. Bishakh Paul
Employee ID of Course Instructor: PUNIV00895

Bishakh Paul

Signature of Instructor-in-charge

Sanjiv Mehta

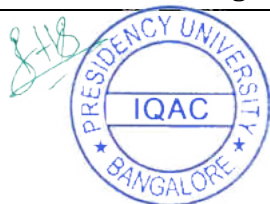
Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kajurbaite, Yalahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-21

Course Code:	EEEV005
Course Name:	Auto CAD for Electrical Engineers
Area of Specialization:	Electrcal Engineering
Course Description:	This course contains a detailed explanation of AutoCAD Electrical tools and features. Every tool and feature is thoroughly explained with the help of examples. After going through this course, you will be able to create professional electrical control drawings with ease such as ladder diagrams, schematic drawings, panel drawings, parametric and nonparametric PLC modules, point-to-point wiring diagrams, report generation, creation of symbols, Circuit Builder, Terminal symbols, and so on.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Explain all AutoCAD Electrical tools and features CO.2. Develop professional electrical control drawings with ease. CO.3. Create a Panel Drawings, Wiring Diagram and creation of symbol. CO.4. Explain the various types of wire selection and PLC selection in CAD.
Course Content:	Module No 1: Basics Of Electrical Drawings: Introduction, Need of Drawings, Electrical Drawings, Common Symbols in Electrical Drawings, Wire and its Types, Labeling. [5- Hours] Module No 2: Introduction to AutoCAD Electrical and Interface: Introduction, System Requirement, Starting AutoCAD Electrical/AutoCAD, Creating A New Drawing Document, Meaning of Default templates, Electrical Templates, Application Menu. Starting Drawing, Open Options, Opening Drawing File Save, Applying Password on File, Save As, Export, Publish, Print Drawing Tab Bar, Drawing Area, Command Window, Bottom Bar, Drafting Settings dialog box [8- Hours] Module No 3: Project Management: Introduction, Project Management, Workflow in AutoCAD Electrical, Starting a New Project, Changing Properties of a project, Adding drawings in the project, Retagging and renumbering ladders in the drawings of project, Plotting/publishing project files, INSERTING COMPONENTS: Inserting Components using Icon menu, Inserting Components using Catalog Browser, Inserting Components using User Defined list, Inserting Components using Equipment list, Inserting Components using Panel list, Inserting Components using Terminal (Panel list), Pneumatic, Hydraulic, and P&ID components [9- Hours] Module No 4: Wires, Circuits, and Ladders: Inserting Wires, Applying wire numbers, Inserting user defined circuits, Inserting ladders, Cable Markers, Circuit Builders. Plcs and Components: Introduction, Application of PLCs in manufacturing process, Inserting Parametric PLCs, Inserting PLCs (Full Unit), Inserting Connectors, Inserting Terminals. [8- Hours]
Instructor In-charge:	Mr. Ravi V Angadi



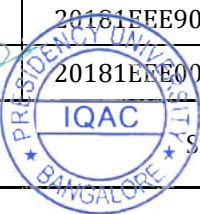


School of Engineering
Department of Electrical & Electronics Engineering
AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Auto CAD for Electrical Engineers & EEEV005
Name of the Instructor: Mr. Ravi V Angadi

Attendance Sheet

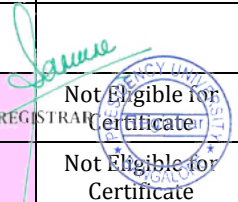
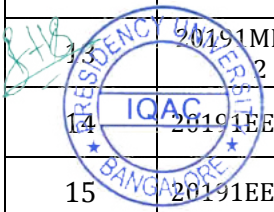
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20201LEE0011	MAMILLA GIRISH KUMAR REDDY	30	30	73.33
2	20191EEE0044	SHWETHA.N	30	27	90.00
3	20191EEE0059	SHABBEER AHMAD MUJAVAR	30	23	82.14
4	20191EEE0045	SIVA PRASAD L	30	26	86.67
5	20191EEE0049	VARSHA B N	30	27	90.00
6	20191EEE0042	SHARANYA P C	30	25	83.33
7	20191EEE0038	SANJAY P	30	21	70.00
8	20191EEE0053	RAHUL RAMESH PAMMAR	30	25	83.33
9	20191EEE0050	YARRABALLI NAVEEN	30	22	73.33
10	20191EEE0036	SAMBHRAM. P. TAILANG	30	24	80.00
11	20191EEE0051	YASHASH N	30	27	90.00
12	20191EEE0060	NAVEEN NELSON.W	30	27	90.00
13	20191MEC0132	RESAPU LIKHITH REDDY	30	24	80.00
14	20191EEE0008	BINDHU D	30	24	80.00
15	20191EEE9003	SRINIVAS K	30	26	86.67
16	20201LEE0004	PRAVEEN M	30	22	73.33
17	20191CIV0071	T SAI KIRAN	30	24	80.00
18	20181EE0069	VISHNU T S	30	24	82.76
19	20191LEE005	KUSHAL S	30	23	76.67
20	20181EEE9003	SYED ZABI SAMEER	30	25	86.21
21	20181EEE0070	WASHEELKAHAN	30	24	80.00
Signature of Course Instructor					





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheet

Course Code :	EEEEV005		Academic Year :			2020-21	
Course Name :	AutoCAD for Electrical Engineers		Semester :			Even Semester	
			Instructor-in-Charge Name:			Mr. Ravi V Angadi	
			Instructor-in-Charge Employee ID :			PUNIV01021	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20201LEE0011	MAMILLA GIRISH KUMAR REDDY	SoE	73.33	84	Yes	
2	20191EEE0044	SHWETHA.N	SoE	90	91	Yes	
3	20191EEE0059	SHABBEER AHMAD MUJAVAR	SoE	82.14	79	Yes	
4	20191EEE0045	SIVA PRASAD L	SoE	86.67	88	Yes	
5	20191EEE0049	VARSHA B N	SoE	90	86	Yes	
6	20191EEE0042	SHARANYA P C	SoE	83.33	92	Yes	
7	20191EEE0038	SANJAY P	SoE	70	64	Yes	
8	20191EEE0053	RAHUL RAMESH PAMMAR	SoE	83.33	Ab	No	Not Eligible for Certificate
9	20191EEE0050	YARRABALLI NAVEEN	SoE	73.33	91	Yes	
10	20191EEE0036	SAMBHRAM. P. TAILANG	SoE	80	86	Yes	
11	20191EEE0051	YASHASH N	SoE	90	89	Yes	
12	20191EEE0060	NAVEEN NELSON.W	SoE	90	50	Yes	
13	20191MEC013	RESAPU LIKHITH REDDY	SoE	80	91	Yes	Not Eligible for Certificate
14	20191EEE0008	BINDHU D	SoE	80	66	Yes	
15	20191EEE9003	SRINIVAS K	SoE	86.67	12	No	Not Eligible for Certificate
16	20201LEE0004	PRAVEEN M	SoE	73.33	Ab	No	Not Eligible for Certificate





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17	20191CIV0071	T SAI KIRAN	SoE	80	Ab	No	Not Eligible for Certificate
18	20181EE0069	VISHNU T S	SoE	82.76	60	Yes	
19	20191LEE005	KUSHAL S	SoE	76.67	87	Yes	
20	20181EEE9003	SYED ZABI SAMEER	SoE	86.21	Ab	No	Not Eligible for Certificate
21	20181EEE0070	WASHEELKAHAN	SoE	80	50	Yes	

Name of Course

Mr. Ravi V Angadi

Instructor :

Employee ID of Course

PUNIV01021

Instructor:

Signature of Instructor-in-charge

Signature of HoD

Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogalur, Yelahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Odd Semester 2020-2021

Course Code:	EEEEV006
Course Name:	Solar Cells - Past, Present and Future
Area of Specialization:	Electrical Engineering
Course Description:	This course introduces the innovation in solar technology which continued to improve its efficiency, size and cost by making it more pervasive throughout society compared with past.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Describe the importance of converters in Power Electronics CO.2. Illustrate the power from solar cell and modelling a solar cell CO.3. Calculate the efficiency and performance of solar cells CO.4. Explain the types of solar cells
Course Content:	Module No 1: How do solar cells work, why do we need, and how can we measure their efficiency?. [5- Hours] Module No 2: In this module we will introduce an equivalent circuit of a solar cell and use it to explain key concepts including short circuit current, open circuit voltage, parasitic resistances, and more. We will also talk about connected solar cells, and their behavior in shaded conditions. [8- Hours] Module No 3: With a knowledge of the working principles of solar cells, we are now ready to apply this knowledge to understand why there are limits to the efficiency of solar cells. We will also briefly look into loss mechanisms that limit the practical efficiency. [9- Hours] Module No 4: In our final module of this course we will look into a selection of solar cell technologies and its types and spend some time comparing all the different solar cell technologies. [8- Hours]
Instructor In-charge:	Ms. Ramya K





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School of Engineering Department of Electrical & Electronics Engineering

AY 2020-21 (Odd Sem)

Value added Course(VAC) Name and Code: Solar Cells - Past, Present and Future & EEEV006

Name of the Instructor: Ms. Ramya K


Attendance Sheet

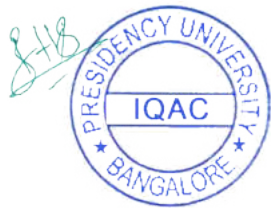
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	2016EEE002	SHIVASAGAR M	30	22	73.33
2	2016EEE010	GAGAN R B	30	27	90.00
3	2016EEE025	ANAS SHAIKH MAHMOOD	30	16	53.33
4	2017LEE002	SANJAY MALLIK	30	26	86.67
5	20171EEE0007	AKSHAY B	30	27	90.00
6	20171EEE0008	AKSHAY KUMAR J UPARKAR	30	25	83.33
7	20171EEE0020	HARPREET SINGH	30	22	73.33
8	20171EEE0032	MD AFFAN KHAN	30	25	83.33
9	20171EEE0040	NAVEEN KUMAR A	30	23	76.67
10	20171EEE0052	RAKSHITH T	30	24	80.00
11	20171EEE0066	SOPHIE SALINS	30	27	90.00
12	20171EEE0070	SYED MUIZZ AHMED	30	27	90.00
13	20171EEE0077	DUDEKULA BASHEER BABA	30	24	80.00
14	20171EEE0082	VARSHA A	30	24	80.00
15	20181LEE0003	HEMANTH KUMAR M L	30	26	86.67
16	20181LEE0016	SACHIN SANGAMESH DIVATAGI	30	22	73.33
17	20181EEE0001	ABHINAV SURESH	30	24	80.00
18	20181EEE0007	ARVINDGOWDA C N	30	24	80.00
19	20181EEE0014	DEEKSHITHA N	30	23	76.67
20	20181EEE0019	HANUMANTH KUMAR A	30	25	83.33
21	20181EEE0025	K SHRAVAN KUMAR	30	24	80.00
22	20181EEE0034	MOHAMMED NASIR	30	24	80.00
23	20181EEE0038	PALLAVI R	30	22	73.33
24	20191LEE0001	NIHARIKA H	30	19	63.33
25	20191LEE0003	BASAVAKUMAR S HIREHAL	30	15	50.00
25	20191LEE0006	DHEERAJ C	30	20	66.67



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26	20181EEE0039	PANDLA GURU SAI GOUD	30	23	76.67
27	20181EEE0048	RITHIK R K	30	25	83.33
28	20181EEE0053	SAMI UL ARFAATH	30	23	76.67
29	20181EEE0059	SONU B M	30	24	80.00
30	20181EEE0064	SURABHI M Y	30	25	83.33
31	20181EEE0070	WASEELKHAN WASEELKHAN	30	16	53.33
32	20181EEE0074	POOJA B S PATEL	30	27	90.00
33	20191LEE0008	PANCHENDRA H D	30	16	53.33
34	20191LEE0012	ARJUN CHHETRY	30	26	86.67
35	2016EEE002	SHIVASAGAR M	30	22	73.33
Signature of Course Instructor					



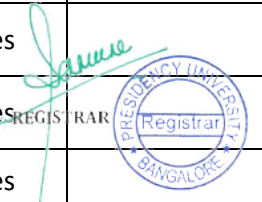
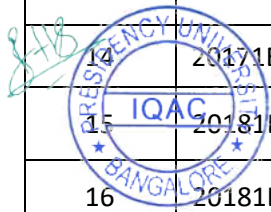


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School of Engineering Department of Electrical & Electronics Engineering Value Added Course Marksheet

Course Code :	EEEV006		Academic Year :			2020-21	
Course Name :	Solar Cells - Past, Present and Future		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Ms. Ramya K	
			Instructor-in-Charge Employee ID :			PUNIV01211	
S. No	Roll No	Name	School SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	2016EEE002	SHIVASAGAR M	SoE	73.33	65	Yes	
2	2016EEE010	GAGAN R B	SoE	90.00	75	Yes	
3	2016EEE025	ANAS SHAIKH MAHMOOD	SoE	53.33	Ab	NO	Not Eligible for Certificate
4	2017LEE002	SANJAY MALLIK	SoE	86.67	77.5	Yes	
5	20171EEE0007	AKSHAY B	SoE	90.00	52.5	Yes	
6	20171EEE0008	AKSHAY KUMAR J UPARKAR	SoE	83.33	57.5	Yes	
7	20171EEE0020	HARPREET SINGH	SoE	73.33	60	Yes	
8	20171EEE0032	MD AFFAN KHAN	SoE	83.33	58	Yes	
9	20171EEE0040	NAVEEN KUMAR A	SoE	76.67	90	Yes	
10	20171EEE0052	RAKSHITH T	SoE	50.00	Ab	NO	Not Eligible for Certificate
11	20171EEE0066	SOPHIE SALINS	SoE	90.00	72	Yes	
12	20171EEE0070	SYED MUIZZ AHMED	SoE	90.00	60	Yes	
13	20171EEE0077	DUDEKULA BASHEER BABA	SoE	80.00	67	Yes	
14	20171EEE0082	VARSHA A	SoE	80.00	42.5	Yes	
15	20181LEE0003	HEMANTH KUMAR M L	SoE	86.67	69	Yes	
16	20181LEE0016	SACHIN SANGAMESH DIVATAGI	SoE	73.33	58	Yes	
17	20181EEE0001	ABHINAV SURESH	SoE	80.00	78	Yes	





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18	20181EEE0007	ARVINDGOWDA C N	SoE	62.758 62069	Ab	NO	Not Eligible for Certificate
19	20181EEE0014	DEEKSHITHA N	SoE	66.666 66667	Ab	NO	Not Eligible for Certificate
20	20181EEE0019	HANUMANTH KUMAR A	SoE	86.21	72.5	Yes	
21	20181EEE0025	K SHRAVAN KUMAR	SoE	80.00	79	Yes	
22	20181EEE0034	MOHAMMED NASIR	SoE	80.00	50	Yes	
23	20181EEE0038	PALLAVI R	SoE	75.86	71	Yes	
24	20191LEE0001	NIHARIKA H	SoE	63.33	71	NO	Not Eligible for Certificate
25	20191LEE0003	BASAVAKUMAR S HIREHAL	SoE	50.00	66	NO	Not Eligible for Certificate
26	20191LEE0006	DHEERAJ C	SoE	66.67	54	NO	Not Eligible for Certificate
27	20181EEE0039	PANDLA GURU SAI GOUD	SoE	76.67	65	Yes	
28	20181EEE0048	RITHIK R K	SoE	83.33	67	Yes	
29	20181EEE0053	SAMI UL ARFAATH	SoE	76.67	62	Yes	
30	20181EEE0059	SONU B M	SoE	80.00	70	Yes	
31	20181EEE0064	SURABHI M Y	SoE	83.33	72	Yes	
32	20181EEE0070	WASEELKHAN WASEELKHAN	SoE	53.33	65	NO	Not Eligible for Certificate
33	20181EEE0074	POOJA B S PATEL	SoE	90.00	69	Yes	
34	20191LEE0008	PANCHENDRA H D	SoE	53.33	67	NO	Not Eligible for Certificate
35	20191LEE0012	ARJUN CHHETRY	SoE	86.67	66	Yes	

Name of Course

Ms. Ramya K

Instructor :

Employee ID of Course

PUNIV01211

Instructor:



Signature of Instructor-in-charge

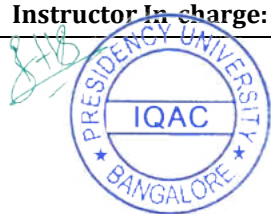
Signature of HoD

Head of the Department
Electrical and EEE
School of Engineering
PRESIDENCY UNIVERSITY
BANGALORE



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Odd Semester 2020-2021

Course Code:	EEEV008
Course Name:	Hybrid Energy Storage System
Area of Specialization:	Power and Energy System
Course Description:	This course introduces students to energy storage systems and provides a broad understanding and appreciation of the scientific principles that underpin the operation of such systems. The emphasis is on grid-scale (or utility-scale) energy storage as a means of addressing the intermittency of renewable energy components (e.g. solar or wind power systems) of modern electricity networks. Smaller energy storage systems are also discussed for benchmarking and comparisons. Topics covered include electrical, chemical, thermal, mechanical, electrochemical, thermochemical and thermomechanical energy storage systems as well as grid integration issues
Course Outcome:	On successful completion of the course the students shall be able to: 1. Discuss the scientific principles underpinning the operation of energy storage systems. 2. Assess the need for introducing energy storage within a closed energy system; 3. Suggest suitable methods and technologies for energy storage units in a given system; 4. Summarize the demand for further development, potential improvements and possibilities for innovative solutions in the energy storage subject field;
Course Content:	Module No 1: This course introduces students to energy storage systems and provides a broad understanding and appreciation of the scientific principles that underpin the operation of such systems. [8- Hours] Module No 2: The emphasis is on grid-scale (or utility-scale) energy storage as a means of addressing the intermittency of renewable energy components (e.g. solar or wind power systems) of modern electricity networks.. [8- Hours] Module No 3: Smaller energy storage systems are also discussed for benchmarking and comparisons. [8- Hours] Module No 4: Topics covered include electrical, chemical, thermal, mechanical, electrochemical, thermochemical and thermomechanical energy storage systems as well as grid integration issues. [6- Hours]
Instructor In charge:	Mr. Nageswara Rao A





School of Engineering
Department of Electrical & Electronics Engineering

AY 2020-21 (Odd Sem)

Value added Course(VAC) Name and Code: Hybrid Energy Storage System & EEEV008

Name of the Instructor: Mr. Nageswara Rao A

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	2016EEE003	ISMAIL ZAIN S A	30	24	80.00
2	2016EEE011	SHALIZA KAUSHAL	30	24	80.00
3	2016EEE018	DHINU S	30	26	86.67
4	2016EEE026	CHAGI ANIRUDH	30	22	73.33
5	2016EEE036	NITISH K A	30	24	80.00
6	2017LEE003	SUNNY KUMAR	30	13	43.33
7	2017IEE0009	ANUSHA DESHPANDE S	30	23	76.67
8	2017IEE0046	PATAN ISMAIL ALLI KHAN	29	25	86.21
9	2016EEE005	KANTESH BASVANTAPPA OLEKAR	30	24	80.00
10	2016EEE013	BHARATH V	30	24	80.00
11	2016EEE020	KEERTHI P	29	22	75.86
12	2016EEE028	MAHANTESH M	30	19	63.33
13	2017IEE0002	ABHISHEK B N	30	15	50.00
14	2017IEE0013	BISHWAKARMA KUMAR	30	20	66.67
15	2019IEE0004	ARUN S	30	19	63.33
16	2019IEE0018	MOHAMMED NOORUDDIN ASRAR	30	15	50
17	2019IEE0024	NAVYA SHREE M	30	20	66.67
18	2019IEE0038	SANJAY P	30	20	66.67
19	2019IEE0042	SHARANYA P C	30	19	63.33
20	2017IEE0027	HUMAIRA TARANNUM	30	15	50
Signature of Course Instructor					

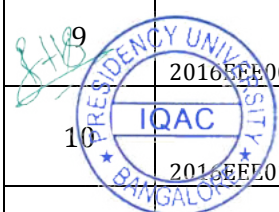


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School of Engineering Department of Electrical & Electronics Engineering Value Added Course Marksheet

Course Code :	EEEE008		Academic Year :			2019-20	
Course Name :	Hybrid Energy Storage System		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Mr. Nageswara Rao A	
			Instructor-in-Charge Employee ID :			PUNIV01282	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	2016EEE003	ISMAIL ZAIN S A	SoE	60.00	88	Yes	Eligible for Certificate
2	2016EEE011	SHALIZA KAUSHAL	SoE	73.33	76	Yes	Eligible for Certificate
3	2016EEE018	DHINU S	SoE	73.33	92	Yes	Eligible for Certificate
4	2016EEE026	CHAGI ANIRUDH	SoE	73.33	90	Yes	Eligible for Certificate
5	2016EEE036	NITISH KA	SoE	73.33	81	Yes	Eligible for Certificate
6	2017LEE003	SUNNY KUMAR	SoE	20.00	43	No	Not Eligible for Certificate
7	20171EEE0009	ANUSHA DESHPANDE S	SoE	13.33	95	Yes	Eligible for Certificate
8	20171EEE0046	PATAN ISMAIL ALLI KHAN	SoE	86.67	92	Yes	Eligible for Certificate
9	2016EEE005	KANTESH BASVANTAPPA OLEKAR	SoE	73.33	78	Yes	Eligible for Certificate
10	2016EEE013	BHARATH V	SoE	86.67	80	Yes	Eligible for Certificate
11	2016EEE020	KEERTHI P	SoE	86.67	82	Yes	Eligible for Certificate
12	2016EEE028	MAHANTESH M	SoE	93.33	82	Yes	Eligible for





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							Certificate
13	20171EEE0002	ABHISHEK B N	SoE	86.67	83	Yes	Eligible for Certificate
14	20171EEE0013	BISHWAKARMA KUMAR	SoE	73.33	45	No	Not Eligible for Certificate
15	20191EEE0004	ARUN S	SoE	63.33	39	No	Not Eligible for Certificate
16	20191EEE0018	MOHAMMED NOORUDDIN ASRAR	SoE	50	25	No	Not Eligible for Certificate
17	20191EEE0024	NAVYA SHREE M	SoE	66.67	32	No	Not Eligible for Certificate
18	20191EEE0038	SANJAY P	SoE	66.67	20	No	Not Eligible for Certificate
19	20191EEE0042	SHARANYA P C	SoE	63.33	27	No	Not Eligible for Certificate
20	20171EEE0022	HUMAIRA TARANNUM	SoE	50	10	No	Not Eligible for Certificate

Name of Course

Mr.Nageswa Rao A

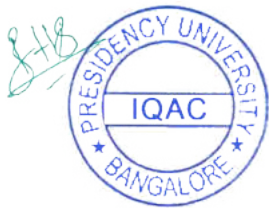
Instructor:

Employee ID of Course

PUNIV01282

Instructor:

Signature of Instructor-in-charge



Signature of HoD

Head of the Department,
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogalurbanke, Yalahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Odd Semester 2020-2021

Course Code:	EEEV009
Course Name:	Fundamentals of Electric and Hybrid Electric Vehicles
Area of Specialization:	Electrical Engineering
Course Description:	The course will be a first level course on electric and hybrid electric vehicles. Students will be able to understand the operation of Electric Vehicles.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Explain the basics of electric and hybrid electric vehicles, their architecture, technologies and fundamentals CO.2. Discuss the fundamentals of vehicle dynamics CO.3. Analyse the use of different power electronic devices and electrical machines in hybrid electric vehicles CO.4. Discuss different energy storage technologies used for hybrid electric vehicles
Course Content:	Module No 1: Different types of Electric vehicles Types of EVs, Hybrid Electric Drive-train, Tractive effort in normal driving, Energy consumption Concept of Hybrid Electric Drive Trains, Architecture of Hybrid Electric Drive Trains, Series Hybrid Electric Drive Trains, Parallel hybrid electric drive trains, [10- Hours] Module No 2: vehicle dynamics Electric Propulsion unit, Configuration and control of DC Motor drives, Induction Motor drives, Permanent Magnet Motor drives, switched reluctance motor, Introduction to Energy Storage. [10- Hours] Module No 3: Requirements in Hybrid and Electric Vehicles Battery based energy storage and its analysis, Fuel Cell based energy storage and its analysis, Hybridization of different energy storage devices. Sizing the drive system, Design of Hybrid Electric Vehicle and Plug-in Electric Vehicle, Energy Management Strategies, Automotive networking and communication, EV and EV charging standards, V2G, G2V, V2B, V2H [10- Hours]
Instructor In-charge:	Ms. Ragasudha C P





School of Engineering
Department of Electrical & Electronics Engineering
AY 2020-21 (Odd Sem)

Value added Course(VAC) Name and Code: Fundamentals of Electric and Hybrid Electric Vehicles & EEEV009

Name of the Instructor: Ms. Ragasudha C P

Attendance Sheet

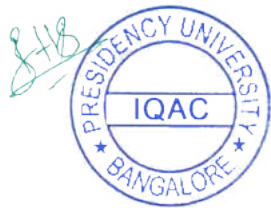
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20171MEC0115	MIRZA FASEHULLAH BAIG	30	30	100.00
2	20171MEC0122	MOHAMMED BILAL V S	30	27	90.00
3	20191LEE0009	LOKESH	30	26	86.67
4	20191ECE0311	SUMADHVA V NAIK	30	26	86.67
5	20181EEE9001	R TEJASWINI	30	28	93.33
6	20181EEE0056	SHARON PRANATHI M	30	30	100.00
7	20191ECE0240	PIDAPA TEJ KIRAN REDDY	30	25	83.33
8	20191EEE0007	BADR ABDULRAHMAN MOHAMMED MANSOOR	30	24	80.00
9	20181EEE0039	PANDLA GURU SAI GOUD	30	30	100.00
10	20191EEE0017	MOHAMMAD ZAID FAROOQ	30	26	86.67
11	20181EEE0072	YASSER AHAMED KHAISAR	30	28	93.33
12	20181EEE0021	JAHNAVI J P	30	25	83.33
13	20191EEE0051	YASHASH N	30	28	93.33
14	20191EEE0011	KEERTHANA B R	30	28	93.33
15	20191EEE0050	YARRABALLI NAVEEN	30	30	100.00
16	20181EEE0068	VARSHA ANIL	30	26	86.67
17	20191EEE9003	SRINIVAS K	30	28	93.33
18	20181EEE0061	SREEVATSA P M	30	25	83.33
19	20191EEE0033	ROSHAN S	30	26	86.67
20	20191EEE0025	P ABHINAV	30	1	3.33
21	20181EEE0031	MALLIKARJUN M HIREMATH	30	14	46.67



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22	20181EEE0047	RAJATH KRISHNA R	30	30	100.00
23	20191ECE0302	SOMARA SANJAY	30	14	46.67
24	20181EEE0071	YAMAVARAM MADHU SUDHAN	30	26	86.67
25	20191EEE0013	KOTHAKOTA JAI RAMAKRISHNA	30	26	86.67
26	20191EEE0045	SIVA PRASAD L	30	28	93.33
27	20181EEE9008	BHARATH S	30	30	100.00
28	20191LEE9003	VISHAK VIJAYA KUMAR	30	25	83.33
29	20191LEE0008	PANCHENDRA	30	25	83.33
30	20181EEE0060	SOUMYA T	30	30	100.00
31	20191LEE9002	N SHIVA TULSHI KUMAR	30	26	86.67
32	20191LEE0006	DHEERAJ C	30	28	93.33
33	20191ECE0284	SHAIK ASIF ALI	30	10	33.33
34	20181EEE0010	BATHALA PRASHANTH	30	28	93.33
35	20191EEE0040	SAPNA N	30	28	93.33
36	20191ECE0327	TARIBOYANA CHARAN	30	1	3.33
37	20191EEE0018	MOHAMMED NOORUDDIN ASRAR	30	28	93.33
38	20191EEE0008	BINDHU D	30	23	76.67
39	20191EEE0024	NAVYA SHREE M	30	23	76.67
Signature of Course Instructor					



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheets

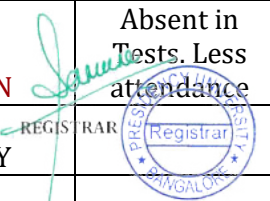
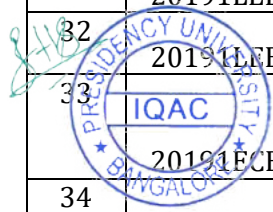
Course Code :	EEEV009		Academic Year :			2020-21	
Course Name :	Fundamentals of Electric and Hybrid Electric Vehicles		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Ms. Ragasudha C P	
			Instructor-in-Charge Employee ID :			PUNIV01324	
S. No	Roll No	Name	School SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20171MEC0115	MIRZA FASEHULLAH BAIG	SoE	100	90	Y	
2	20171MEC0122	MOHAMMED BILAL V S	SoE	90	90	Y	
3	20191LEE0009	LOKESH	SoE	87	80	Y	
4	20191ECE0311	SUMADHVA V NAIK	SoE	87	80	Y	
5	20181EEE9001	R TEJASWINI	SoE	93	60	Y	
6	20181EEE0056	SHARON PRANATHI M	SoE	100	75	Y	
7	20191ECE0240	PIDAPA TEJ KIRAN REDDY	SoE	83	75	Y	
8	20191EEE0007	BADR ABDULRAHMAN MOHAMMED MANSOOR	SoE	80	55	Y	
9	20181EEE0039	PANDLA GURU SAI GOUD	SoE	100	70	Y	
10	20191EEE0017	MOHAMMAD ZAID FAROOQ	SoE	87	65	Y	



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11	20181EEE0072	YASSER AHAMED KHAISAR	SoE	93	80	Y	
12	20181EEE0021	JAHNAVI J P	SoE	83	80	Y	
13	20191EEE0051	YASHASH N	SoE	93	70	Y	
14	20191EEE0011	KEERTHANA B R	SoE	93	60	Y	
15	20191EEE0050	YARRABALLI NAVEEN	SoE	100	75	Y	
16	20181EEE0068	VARSHA ANIL	SoE	87	65	Y	
17	20191EEE9003	SRINIVAS K	SoE	93	50	Y	
18	20181EEE0061	SREEVATSA P M	SoE	83	85	Y	
19	20191EEE0033	ROSHAN S	SoE	87	70	Y	
20	20191EEE0025	P ABHINAV	SoE	3	25	N	Less marks in tests. Less attendance
21	20181EEE0031	MALLIKARJUN M HIREMATH	SoE	47	AB	N	Absent in Tests.
22	20181EEE0047	RAJATH KRISHNA R	SoE	100	75	Y	
23	20191ECE0302	SOMARA SANJAY	SoE	47	AB	N	Absent in Tests.
24	20181EEE0071	YAMAVARAM MADHU SUDHAN	SoE	87	65	Y	
25	2.0191E+11	KOTHAKOTA JAI RAMAKRISHNA	SoE	87	80	Y	
26	20191EEE0045	SIVA PRASAD L	SoE	93	70	Y	
27	20181EEE9008	BHARATH S	SoE	100	85	Y	
28	20191LEE9003	VISHAK VIJAYA KUMAR	SoE	83	80	Y	
29	20191LEE0008	PANCHENDRA	SoE	83	70	Y	
30	20181EEE0060	SOUMYA T	SoE	100	70	Y	
31	20191LEE9002	N SHIVA TULSHI KUMAR	SoE	87	65	Y	
32	20191LEE0006	DHEERAJ C	SoE	93	65	Y	
33	20191ECE0284	SHAIK ASIF ALI	SoE	33	AB	N	Absent in Tests. Less attendance
34	20181EEE0010	BATHALA PRASHANTH	SoE	93	55	Y	
35	20191EEE0040	SAPNA N	SoE	93	50	Y	





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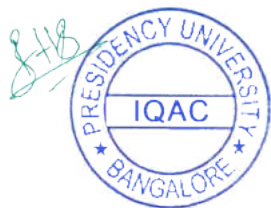
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36	20191ECE0327	TARIBOYANA CHARAN	SoE	3	AB	N	Absent in Tests. Less attendance
37	20191EEE0018	MOHAMMED NOORUDDIN ASRAR	SoE	93	80	Y	
38	20191EEE0008	BINDHU D	SoE	77	80	Y	
39	20191EEE0024	NAVYA SHREE M	SoE	77	85	Y	

Name of Course Ms. Ragasudha C P
Instructor :
Employee ID of Course PUNIV01324
Instructor:

**Signature of
Instructor-in-charge**

Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogalur, Yalahanka, Bengaluru - 56





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School of Engineering
Department of Electrical & Electronics Engineering

Value Added Course offered during the Odd Semester AY 2020-21

Course Code:	EEEV010
Course Name:	Pulse Width Modulation for Multilevel Converters
Area of Specialization:	Power Electronics
Course Description:	The course is a tour through the fundamental disciplines including Pulse width Modulation and its importance in power electronic converters. At the end of the course you will have gained a fundamental understanding of the field. This will allow you to identify the most interesting or relevant aspects to be pursued in your future studies or in your professional career.
Course Outcome:	On successful completion of the course, the student shall be able to: 01 Identify the importance of inverters in Power Electronics 02 Discuss basic structure of Multilevel Inverters. 03 Explain the elements and topology used in Multilevel Inverters 04 Explain various types in Multilevel inverter.
Course Content:	Module 1: Introduction to Multilevel Converters Overview of power electronics and its applications Introduction to multilevel converters and their advantages Types of multilevel converters (Diode-Clamped, Flying Capacitor, Cascaded H-Bridge, etc.) Comparison between conventional two-level converters and multilevel converters [10 Hours] Module 2: Basics of Pulse Width Modulation (PWM), Principles of Pulse Width Modulation, Modulation index and its significance, PWM techniques (Sinusoidal PWM, Space Vector PWM, Carrier-Based PWM), Performance metrics of PWM techniques (THD, Switching frequency, etc.) [10 Hours] Module 3: Multilevel Inverter Topologies, Diode-Clamped Multilevel Inverter (Neutral Point Clamped), Flying Capacitor Multilevel Inverter, Cascaded H-Bridge Multilevel Inverter, Comparison of various multilevel inverter topologies [10 Hours]
Instructor In-charge:	Mr. Sarin M V





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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

School of Engineering

Department of Electrical & Electronics Engineering

AY 2020-21 (Odd Sem)

Value added Course(VAC) Name and Code: Pulse Width Modulation for Multilevel Converters & EEEV010

Name of the Instructor: Mr. Sarin M V

Attendance Sheet

S.No	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	2016EEEE006	TALANK S	30	22	73
2	2016EEE014	ASHISH PANDIT R	30	20	67
3	2016EEEE021	RANGASWAMY H	30	26	87
4	2016EEEE031	MERIGA MAMATHA	30	22	73
5	20171EEEE0003	ADIL JEBRAN	30	25	83
6	20171EEEE0014	DEVARAKONDA HARSHAVARDHAN	30	20	67
7	20171EEEE0024	KEERTHANA D	30	25	83
8	20171EEEE0035	MELVIN MOSES YOUNG	30	19	63
9	20171EEEE0042	NEERUGATTI SUNIL	30	29	97
10	20171EEEE0049	PUNEETH KUMAR C	30	20	67
11	20171EEEE0057	S SHALINI	30	27	90
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	30	22	73
13	20181LEE0018	KAVYA M	30	24	80
14	20181EEE0004	AMULYA A PUROHIT	30	24	80
15	20181EEE0010	BATHALA PRASHANTH	30	25	83
16	20181EEE0016	G SAIKUMAR	30	22	73
17	20181EEE0021	JAHNAVI J P	30	26	87
18	20181EEE0028	KESHAV GANESH	30	26	87
19	20181EEE0037	PALLA REDDAIAH	30	23	77
20	20181EEE004	PREETHAM HIMAKAR	30	23	77
21	20181EEE005	SATISH KUMAR	30	24	80
22	20181EEE006	TEJAS GOWDA M	30	23	77
Signature of Course Instructor					



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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheets

Course Code :	EEEEV010		Academic Year :			2020-21	
Course Name :	Pulse Width Modulation for Multilevel Converters		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Mr. Sarin M V	
			Instructor-in-Charge Employee ID :			PUNIV01347	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	2016EEEE006	TALANK S	SoE	73	67	N	Not Eligible for certificate
2	2016EEEE014	ASHISH PANDIT R	SoE	67	61	N	Not Eligible for certificate
3	2016EEEE021	RANGASWAMY H	SoE	87	79	Y	
4	2016EEEE031	MERIGA MAMATHA	SoE	73	67	N	Not Eligible for certificate
5	20171EEE0003	ADIL JEBRAN	SoE	83	76	Y	
6	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	SoE	67	61	N	Not Eligible for certificate
7	20171EEE0024	KEERTHANA D	SoE	83	76	Y	
8	20171EEE0035	MELVIN MOSES YOUNG	SoE	63	58	N	Not Eligible for certificate
9	20171EEE0042	NEERUGATTI SUNIL	SoE	97	88	Y	
10	20171EEE0049	PUNEETH KUMAR C	SoE	67	61	N	Not Eligible for certificate
11	20171EEE0057	S SHALINI	SoE	90	82	Y	
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	SoE	73	67	N	Not Eligible for certificate
13	20181LEE0018	KAVYA M	SoE	80	73	Y	
14	20181EEE0004	AMULYA A PUROHIT	SoE	80	73	Y	
15	20181EEE0010	BATHALA PRASHANTH	SoE	83	76	Y	



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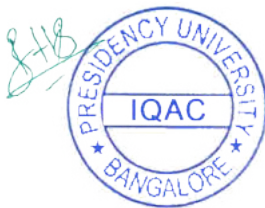
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16	20181EEE00 16	G SAIKUMAR	SoE	73	67	N	Not Eligible for certificatae
17	20181EEE00 21	JAHNAVI J P	SoE	87	79	Y	
18	20181EEE00 28	KESHAV GANESH	SoE	87	79	Y	
19	20181EEE00 37	PALLA REDDAIAH	SoE	77	70	Y	
20	20181EEE00 44	PREETHAM HIMAKAR	SoE	77	70	Y	
21	20181EEE00 55	SATISH KUMAR	SoE	80	73	Y	
22	20181EEE00 67	TEJAS GOWDA M	SoE	77	70	Y	

Name of Course Instructor : Mr. Sarin M V
Employee ID of Course Instructor: PUNIV01347

Signature of Instructor-in-charge

**Signature of
HoD**
Head of the Department,
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kajuraba, Yalahanka, Bengaluru -64





PRESIDENCY UNIVERSITY

(Private University Estd. in Karnataka State by Act No. 41 of 2013)

PU-SoE-EEE 2020-21

Ref. No. PU/ SoE/ EEE /2020-21/VAC/CIR/02

11-05-2021

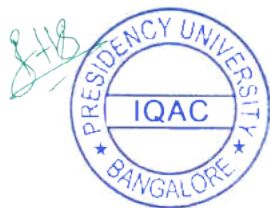
CIRCULAR

Sub: VALUE ADDED COURSES – OFFERED BY THE DEPT. OF EEE

This is to inform all the students of the 2nd, 4th, and 8th semesters of B. Tech (EEE), the following value-added courses will be offered by the department during the AY 2020-21 (Winter Semester):

Sl. No	Course Code	Course Name	Name of the Faculty
1.	EEEV005	Auto CAD for Electrical Engineers	Mr. Ravi V Angadi
2.	EEEV007	Fundamentals of Solar Power	Ms. Ramya N
3.	EEEV012	Synchronized phasor measurement in Grid using PMUs	Mr. Bishakh Paul
4.	EEEV013	Simulation of Power Electronics circuits using MATLAB Simulink, Python and LT Spice	Mr. K. Sreekanth Reddy
5.	EEEV014	Wide Area monitoring, protection and control of Modern Power System	Mr. Nageswara Rao A
6.	EEEV015	Introduction and Modelling of Electric and Hybrid Electric Vehicles using MAPLESOFT	Ms. Ramya K
7.	EEEV016	Design and simulation of DC-DC converters	Ms. Ragasudha C P
8.	EEEV017	Design of Fuzzy Logic Systems	Mr. Sarin M V
9.	EEEV018	Introduction to MATLAB/Simulink	Ms. Jisha L.K
10.	EEEV019	Solar Energy systems	Sukumar S.J.

All are informed to contact the respective course ICs of VAC based on your choice. The duration of the course is 30 hours. All the students are encouraged to attend VAC as per the course instructor's schedule. A certificate will be awarded after successful completion of the course.



Dr. Joshi Manohar
HOD - EEE



City Office: University House, 8/1, King Street, Richmond Town, Bengaluru - 560025

Campus: Presidency University, Itgalpura, Rajanukunte, Bengaluru - 560064

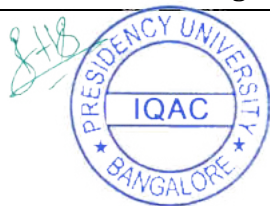
Phone: + 80 4925 5533 / 5599 Email ID: info@presidencyuniversity.in

www.presidencyuniversity.in



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-21

Course Code:	EEEV005
Course Name:	Auto CAD for Electrical Engineers
Area of Specialization:	Electrcal Engineering
Course Description:	This course contains a detailed explanation of AutoCAD Electrical tools and features. Every tool and feature is thoroughly explained with the help of examples. After going through this course, you will be able to create professional electrical control drawings with ease such as ladder diagrams, schematic drawings, panel drawings, parametric and nonparametric PLC modules, point-to-point wiring diagrams, report generation, creation of symbols, Circuit Builder, Terminal symbols, and so on.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Explain all AutoCAD Electrical tools and features CO.2. Develop professional electrical control drawings with ease. CO.3. Create a Panel Drawings, Wiring Diagram and creation of symbol. CO.4. Explain the various types of wire selection and PLC selection in CAD.
Course Content:	Module No 1: Basics Of Electrical Drawings: Introduction, Need of Drawings, Electrical Drawings, Common Symbols in Electrical Drawings, Wire and its Types, Labeling. [5- Hours] Module No 2: Introduction to AutoCAD Electrical and Interface: Introduction, System Requirement, Starting AutoCAD Electrical/AutoCAD, Creating A New Drawing Document, Meaning of Default templates, Electrical Templates, Application Menu. Starting Drawing, Open Options, Opening Drawing File Save, Applying Password on File, Save As, Export, Publish, Print Drawing Tab Bar, Drawing Area, Command Window, Bottom Bar, Drafting Settings dialog box [8- Hours] Module No 3: Project Management: Introduction, Project Management, Workflow in AutoCAD Electrical, Starting a New Project, Changing Properties of a project, Adding drawings in the project, Retagging and renumbering ladders in the drawings of project, Plotting/publishing project files, INSERTING COMPONENTS: Inserting Components using Icon menu, Inserting Components using Catalog Browser, Inserting Components using User Defined list, Inserting Components using Equipment list, Inserting Components using Panel list, Inserting Components using Terminal (Panel list), Pneumatic, Hydraulic, and P&ID components [9- Hours] Module No 4: Wires, Circuits, and Ladders: Inserting Wires, Applying wire numbers, Inserting user defined circuits, Inserting ladders, Cable Markers, Circuit Builders. Plcs and Components: Introduction, Application of PLCs in manufacturing process, Inserting Parametric PLCs, Inserting PLCs (Full Unit), Inserting Connectors, Inserting Terminals. [8- Hours]
Instructor In-charge:	Mr. Ravi V Angadi





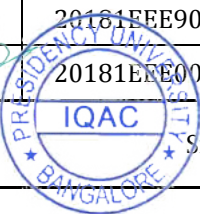
School of Engineering
Department of Electrical & Electronics Engineering
AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Auto CAD for Electrical Engineers & EEEV005

Name of the Instructor: Mr. Ravi V Angadi

Attendance Sheet

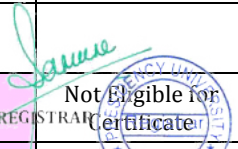
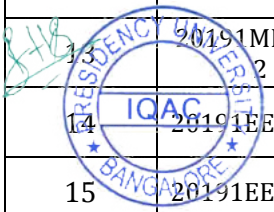
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20201LEE0011	MAMILLA GIRISH KUMAR REDDY	30	30	73.33
2	20191EEE0044	SHWETHA.N	30	27	90.00
3	20191EEE0059	SHABBEER AHMAD MUJAVAR	30	23	82.14
4	20191EEE0045	SIVA PRASAD L	30	26	86.67
5	20191EEE0049	VARSHA B N	30	27	90.00
6	20191EEE0042	SHARANYA P C	30	25	83.33
7	20191EEE0038	SANJAY P	30	21	70.00
8	20191EEE0053	RAHUL RAMESH PAMMAR	30	25	83.33
9	20191EEE0050	YARRBALLI NAVEEN	30	22	73.33
10	20191EEE0036	SAMBHRAM. P. TAILANG	30	24	80.00
11	20191EEE0051	YASHASH N	30	27	90.00
12	20191EEE0060	NAVEEN NELSON.W	30	27	90.00
13	20191MEC0132	RESAPU LIKHITH REDDY	30	24	80.00
14	20191EEE0008	BINDHU D	30	24	80.00
15	20191EEE9003	SRINIVAS K	30	26	86.67
16	20201LEE0004	PRAVEEN M	30	22	73.33
17	20191CIV0071	T SAI KIRAN	30	24	80.00
18	20181EE0069	VISHNU T S	30	24	82.76
19	20191LEE005	KUSHAL S	30	23	76.67
20	20181EEE9003	SYED ZABI SAMEER	30	25	86.21
21	20181EEE0070	WASHEELKAHAN	30	24	80.00
Signature of Course Instructor					





School of Engineering Department of Electrical & Electronics Engineering Value Added Course Marksheet

Course Code :	EEEEV005		Academic Year :			2020-21	
Course Name :	AutoCAD for Electrical Engineers		Semester :			Even Semester	
			Instructor-in-Charge Name:			Mr. Ravi V Angadi	
			Instructor-in-Charge Employee ID :			PUNIV01021	
S. No	Roll No	Name	School SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20201LEE0011	MAMILLA GIRISH KUMAR REDDY	SoE	73.33	84	Yes	
2	20191EEE0044	SHWETHA.N	SoE	90	91	Yes	
3	20191EEE0059	SHABBEER AHMAD MUJAVAR	SoE	82.14	79	Yes	
4	20191EEE0045	SIVA PRASAD L	SoE	86.67	88	Yes	
5	20191EEE0049	VARSHA B N	SoE	90	86	Yes	
6	20191EEE0042	SHARANYA P C	SoE	83.33	92	Yes	
7	20191EEE0038	SANJAY P	SoE	70	64	Yes	
8	20191EEE0053	RAHUL RAMESH PAMMAR	SoE	83.33	Ab	No	Not Eligible for Certificate
9	20191EEE0050	YARRABALLI NAVEEN	SoE	73.33	91	Yes	
10	20191EEE0036	SAMBHRAM. P. TAILANG	SoE	80	86	Yes	
11	20191EEE0051	YASHASH N	SoE	90	89	Yes	
12	20191EEE0060	NAVEEN NELSON.W	SoE	90	50	Yes	
13	20191MEC013	RESAPU LIKHITH REDDY	SoE	80	91	Yes	
14	20191EEE0008	BINDHU D	SoE	80	66	Yes	
15	20191EEE9003	SRINIVAS K	SoE	86.67	12	No	Not Eligible for Certificate
16	20201LEE0004	PRAVEEN M	SoE	73.33	Ab	No	Not Eligible for Certificate





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17	20191CIV0071	T SAI KIRAN	SoE	80	Ab	No	Not Eligible for Certificate
18	20181EE0069	VISHNU T S	SoE	82.76	60	Yes	
19	20191LEE005	KUSHAL S	SoE	76.67	87	Yes	
20	20181EEE9003	SYED ZABI SAMEER	SoE	86.21	Ab	No	Not Eligible for Certificate
21	20181EEE0070	WASHEELKAHAN	SoE	80	50	Yes	

Name of Course

Mr. Ravi V Angadi

Instructor :

Employee ID of Course

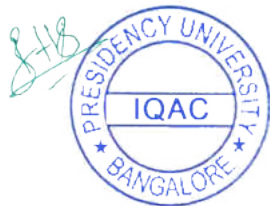
PUNIV01021

Instructor:

Signature of Instructor-in-charge

Signature of HoD

Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogalur Road, Yalahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-2021

Course Code:	EEEV007
Course Name:	Fundamentals of Solar power
Area of Specialization:	Electrical Engineering
Course Description:	This course gives you an introduction to the fundamentals of solar power as it applies to solar panel system installations. You will learn to compare solar energy to other energy resources and explain how solar panels, or photovoltaics (PV for short), convert sunlight to electricity. You will be able to identify the key components needed in a basic photovoltaic (solar panel) system, such as is found on a house or building, and explain the function of each component in the system. You will also learn how to calculate the electrical demand of a building, how to reduce the overall demand, and then how to design a solar panel system that can meet that annual demand at a given location. You will also compare the different types of pricing models that are being used and key regulatory considerations for grid tied systems (where a house or building is connected to the electrical grid and also generates electricity from solar panels). A capstone design project that entails both the simple audit of a building to determine demand, and a selection of components to design a solar panel system to meet that demand.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. To calculate the electrical demand of a building CO.2. Compare the different types of pricing models CO.3. Develop a Project for real time systems
Course Content:	Module No 1: This course will give you an introduction to the various forms of energy available to us on the Earth and how solar power fits into the overall mix. It will also introduce you to the various parts that go into that solar panel system you see on a house or other building, both the obvious parts and the less obvious pieces. [10-Hours] Module No 2: Lastly, you'll learn how to calculate the efficiency of a solar panel as it takes in light energy from the sun and converts it to electricity. ..In addition you will be learning about the historical development of photovoltaics, the current trends, and some of the future forecasts of the market both globally and with a little bit of a closer look at the United States. [10- Hours] Module No 3: Finally, you'll be learning about the segmentation of photovoltaics into different applications beyond just solar panels on a house or a solar farm.. [10- Hours]
Instructor In-charge:	Ms. Ramya N Rao





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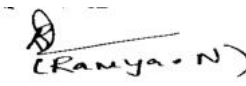
School of Engineering Department of Electrical & Electronics Engineering

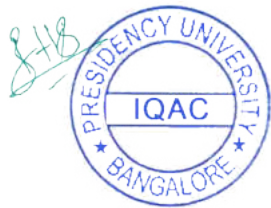
AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Fundamentals of Solar power & EEEV007

Name of the Instructor: Ms. Ramya N Rao

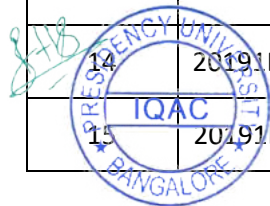
Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20181ECE0070	N NIRANJAN KUMAR	30	24	80.00
2	20181EEE0023	JAYASHREE V	30	27	90.00
3	20181EEE0055	SATISH KUMAR	30	25	83.33
4	20191EEE0049	Varsha B N	30	26	86.67
5	20191EEE0057	zaid	30	27	90.00
6	20191lee0013	Nagaraju v	30	25	83.33
7	20171PET0019	AYITARAJU HARSHITH	30	25	83.33
8	20191ECE0119	GOUTHAMKUMAR G	30	24	80.00
9	20191EEE0003	Anusha M Jolad	30	24	80.00
10	20191LEE0002	Shivachandan	30	23	76.67
11	20181LEE0007	GANESH KUMAR SINGH	30	0	0.00
12	20181EEE9003	syed Zabi sameer	30	0	0.00
13	20191lee0004	Ravikumar k	30	0	0.00
14	20191ECE0094	E SAI KIRAN	30	0	0.00
15	20191EEE0039	SANKET VIJAY KUMAR KAMBLE	30	0	0.00
Signature of Course Instructor					



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheet

Course Code :	EEEV007		Academic Year :			2020-21	
Course Name :	Fundamentals of solar Power		Semester :			Even Semester	
			Instructor-in-Charge Name:			Ms. Ramya N Rao	
			Instructor-in-Charge Employee ID :			PUNIV01277	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20181ECE0070	N NIRANJAN KUMAR	SOE	80.00	41	Y	
2	20181EEE0023	JAYASHREE V	SOE	90.00	42	Y	
3	20181EEE0055	SATISH KUMAR	SOE	83.33	42	Y	
4	20191EEE0049	Varsha B N	SOE	86.67	45	Y	
5	20191EEE0057	zaid	SOE	90.00	41	Y	
6	20191lee0013	Nagaraju v	SOE	83.33	30	Y	
7	20171PET0019	AYITARAJU HARSHITH	SOE	83.33	30	Y	
8	20191ECE0119	GOUTHAMKUMAR G	SOE	80.00	32	Y	
9	20191EEE0003	Anusha M Jolad	SOE	80.00	41	Y	
10	20191LEE0002	Shivachandan	SOE	76.67	40	Y	
11	20181LEE0007	GANESH KUMAR SINGH	SOE	0	0	N	Not Eligible for Certificate
12	20181EEE9003	syed Zabi sameer	SOE	0	0	N	Not Eligible for Certificate
13	20191lee0004	Ravikumar k	SOE	0	0	N	Not Eligible for Certificate
14	20191ECE0094	E SAI KIRAN	SOE	0	0	N	Not Eligible for Certificate
15	20191EEE0039	SANKET VIJAY KUMAR KAMBLE	SOE	0	0	N	Not Eligible for Certificate

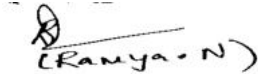




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Name of Course
Instructor : Ms. Ramya N Rao
Employee ID of Course
Instructor: PUNIV01277



(Ramya N)

Signature of Instructor-in-charge



Signature of HoD

Head of the Department,
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Koramangala, Yalahanka, Bengaluru - 56





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School of Engineering
Department of Electrical & Electronics Engineering

Value Added Course offered during the Even Semester AY 2020-21

Course Code:	EEEV012
Course Name:	Synchronized Phasor measurement in Grid using PMUs
Area of Specialization:	Power Systems
Course Description:	This Course introduces to Phasor measurement unit (PMU) technology used for wide area grid monitoring to avoid blackout conditions. Advanced DSP algorithms are used to estimate the phasor value of voltage and current signals which helps in monitoring the dynamic nature of the power system. It develops analytical abilities in students with the help of Lab-VIEW Software.
Course Outcome:	On successful completion of the course, the student shall be able to: 01 Summarize the Power system Contingencies 02 Analyze phasor estimate for voltage and current for micro grid and conventional grid. 03 Explain the algorithm of recursive and non-recursive DFT 04 Compute and minimize the cost of reactive power consumption.
Course Content:	Module 1: Introduction to fourier transform, phasor estimation using discrete fourier transform method. [10 Hours] Module 2: phasor estimation using non-recursive and recursive discrete fourier transform method in micro-grid and conventional grid, lab-view model and results using non-recursive DFT algorithm, lab-view model and results using recursive DFT algorithm [10 Hours] Module 3: introduction to phasor measurement unit, hardware setup of phasor measurement unit and results, hardware setup using NI my-RIO, cost calculation on the basis of reactive energy consumption [10 Hours]
Instructor In-charge:	Mr. Bishakh Paul





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School of Engineering




Department of Electrical & Electronics Engineering

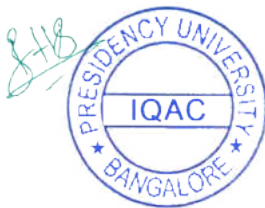
AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Synchronized Phasor measurement in Grid using PMUs & EEEV012

Name of the Instructor: Mr. Bishakh Paul

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20191EEE9004	SAGAR DAYI	30	23	76.67
2	20191EEE0059	SHABBIR AHMAD MUJAVAR	30	23	76.67
Signature of Course Instructor					





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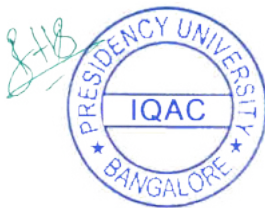
School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheets

Course Code :	EEEV012		Academic Year :			2020-21	
Course Name :	Synchronized Phasor measurement in Grid using PMUs		Semester :			Even Semester	
			Instructor-in-Charge Name:			Mr. Bishakh Paul	
			Instructor-in-Charge Employee ID :			PUNIV00895	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	2019EEE9004	SAGAR DAYI	SoE	85%	80	YES	
2	2019EEE0059	SHABBIR AHMAD MUJAVAR	SoE	96%	90	YES	

Name of Course Instructor : Mr. Bishakh Paul
Employee ID of Course Instructor: PUNIV00895

Signature of Instructor-in-charge

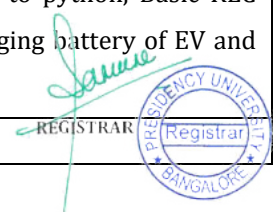
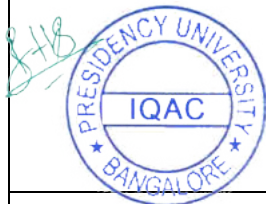
Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kajurbaite, Yalahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-2021

Course Code:	EEEV013
Course Name:	Simulation of Power Electronics circuits using MATLAB Simulink, Python and LTSpice
Area of Specialization:	Electrcal Engineering
Course Description:	This course is designed to allow you to simulate any power electronics device in MATLAB/Simulink and LT Spice including rectifiers, dc-to-dc converters, and inverters. The course also has a basic introduction on Python programming to help you with writing control code for electrical circuits. The course uses the free and open source circuit simulator Python Power Electronics. After going through this course, you will be able to create professional electrical power converter circuits for Electric vehicle applications.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Recognize the importance of MATLAB, LT spice and its capabilities CO.2. Explain the simulation of AC-DC circuits using Simulink in MATLAB and LT spice. CO.3. Explain the simulation DC-DC and DC-AC converters using Simulink in MATLAB CO.4. Show the power electronics model for EV battery charging using MATLAB Simulink
Course Content:	Module No 1: Basics of MATLAB Simulink, Generation of dfferent signals, phase delay, duty ratio of pulse Generators, Introduction to LT spice [5- Hours] Module No 2: MATLAB Simulink of AC-DC Converters, Single phase half wave, full wave, semi controlled and uncontrolled rectifiers, three phase full wave controlled rectifiers with different loads [8- Hours] Module No 3: MATLAB Simulink of DC-DC Converters, buck, boost converters, single phase inverters, three phase inverters with different load conditions, pulse width modulation techniques. [9- Hours] Module No 4: Buck converter using LT Spice, introduction to python, Basic RLC circuits using python, bidirectional converter model for charging battery of EV and current scenario of power electronic applications. [8- Hours]
Instructor In-charge:	Mr. K Sreekanth Reddy





**School of Engineering
Department of Electrical & Electronics Engineering**

AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Simulation of Power Electronics circuits using MATLAB Simulink,
Python and LTSpice & EEEV013

Name of the Instructor: Mr. K Sreekanth Reddy

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20181EEE0072	MANDADI KARTHIKEYAN REDDY	30	28	93.33
2	20191EEE0013	KOTHAKOTA JAI RAMAKRISHNA	30	30	100.00
3	20191EEE0015	R S SHARUKH	30	26	86.67
4	20181EEE0072	YASSER AHAMED KHAISAR	30	27	90.00
Signature of Course Instructor			<i>K. Sreekanth Reddy</i>		





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School of Engineering Department of Electrical & Electronics Engineering Value Added Course Marksheet

Course Code :	EEEV013	Academic Year :	2020-21				
Course Name :	Simulation of Power Electronics circuits using MATLAB Simulink, Python and LTSpice	Semester :	Even Semester				
		Instructor-in-Charge Name:	Mr. K Sreekanth Reddy				
		Instructor-in-Charge Employee ID :	PUNIV00489				
S. No	Roll No	Name	School SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remarks
1	20181EEE0072	MANDADI KARTHIKEYAN REDDY	SoE	93%	90	Yes	
2	20191EEE0013	KOTHAKOTA JAI RAMAKRISHNA	SoE	100%	90	Yes	
3	20191EEE0015	R S SHARUKH	SoE	87%	67	Yes	
4	20181EEE0072	YASSER AHAMED KHAISAR	SoE	90%	80	Yes	

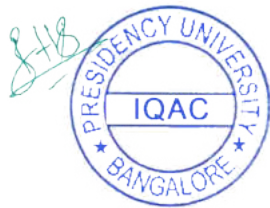
Name of Course
Instructor : Mr. K Sreekanth Reddy
Employee ID of Course
Instructor: PUNIV00489

K. Sreekanth Reddy

Signature of Instructor-
in-charge

[Signature]

Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kajurukur, Yalahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-2021

Course Code:	EEEV014
Course Name:	Wide Area Monitoring protection and control of Modern Power System
Area of Specialization:	Electrical Engineering
Course Description:	This course contains a detailed explanation on Wide Area Monitoring System (WAMS) which enables power system dynamic behavior to be permanently monitored. WAMS provides time-synchronized information every 20 ms (in 50 Hz systems); each data sample is equipped with a Coordinated Universal Time (UTC) stamp. The course deals with various configurations of wide area monitoring.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Explain about basic principles of wide are monitoring and control of power system CO.2. Develop phasor diagrams of power system CO.3. Discuss wide area concepts in power system
Course Content:	Module 1: Introduction Basic architecture; Module 2: Basic principles for wide area monitoring and control in real-time; Module 3: Dynamic modelling of synchronous generator; Module 4: Transient stability monitoring and control; small signal monitoring and control Module 5: Characterization of Phasor Fourier concepts and applications; Module 6: sampling data and aliasing; phasor estimation of nominal frequency inputs; Module 7: Phasor estimation of off-nominal frequency inputs, single phase, multiphase, unbalanced systems, sequence components estimation
Instructor In-charge:	Mr. Nageswara Rao






School of Engineering
Department of Electrical & Electronics Engineering

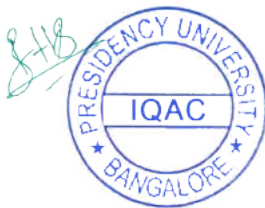
AY 2020-21 (Even Sem)

**Value added Course(VAC) Name and Code: Wide Area Monitoring protection and control of
Modern Power System & EEEV014**

Name of the Instructor: Mr. Nageswara Rao

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20191EEE0014	KRUTHIKA R	30	18	60
2	20171EEE0069	SURAJJ R	30	30	100
3	20171EEE0079	AMITHG	30	25	93
Signature of Course Instructor					




School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheet

Course Code :	EEEV014		Academic Year :			2020-21	
Course Name :	Wide Area Monitoring protection and control of Modern Power System		Semester :			Even Semester	
			Instructor-in-Charge Name:			Mr. Nageswara Rao	
			Instructor-in-Charge Employee ID :			PUNIV01282	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191EEE0014	KRUTHIKA R	SoE	60	10	No	Not Eligible for Certificate
2	20171EEE0069	SURAJJ R	SoE	100	50	Yes	
3	20171EEE0079	AMITHG	SoE	93	20	No	Not Eligible for Certificate

Name of Course Mr. Nageswara Rao
Instructor :
Employee ID of Course PUNIV01282
Instructor:


Signature of Instructor-in-charge


Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kajurubank, Yalahanka, Bengaluru - 56





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Odd Semester 2019-2020

Course Code:	EEEV015
Course Name:	Introduction and Modelling of Electric and Hybrid Electric Vehicles using MAPLESOFT
Area of Specialization:	Electrical Engineering
Course Description:	The course will be a first level course on electric and hybrid electric vehicles. Students will be able to understand the Modelling of Electric and Hybrid Electric Vehicles using MAPLESOFT.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Explain the basics of electric and hybrid electric vehicles, their architecture, technologies and fundamentals CO.2. Discuss the fundamentals of vehicle dynamics CO.3. Explain the features of MAPLESOFT CO.4. Apply the MAPLESOFT to model the vehicle dynamics
Course Content:	Module No 1: Depleting fossil fuels at a drastic rate has encouraged many research enthusiasts to find an alternative source of energy to run the vehicles. To achieve substantial increase in fuel economy and reduced emissions, a concept of hybridization has set its way in 21st century. [5- Hours] Module No 2: The vehicle dynamics is the motion of the vehicle generated by the steering action, through which the vehicle is capable of independent motion. This chapter explains the motion of the vehicle for a given steer input, and explains the mechanics of vehicle motion. [8- Hours] Module No 3: Features of Maple include: Support for symbolic and numeric computation with arbitrary precision. Elementary and special mathematical function libraries. Complex numbers and interval arithmetic. [9- Hours] Module No 4: Maplesoft specializes in the modeling, simulation, and optimization of complex systems, such as vehicle chassis, suspension, and tires. You can use virtual models to investigate vehicle ride and handling under different road conditions and driving maneuvers, develop vehicle dynamic control systems, and produce simulation code for hardware-in-the-loop testing and for use within a driving simulator. [8-Hours]
Instructor In-charge:	Ms. Ramya K





School of Engineering
Department of Electrical & Electronics Engineering

AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Introduction and Modelling of Electric and Hybrid Electric Vehicles using MAPLESOFT & EEEV015

Name of the Instructor: Ms. Ramya K

Attendance Sheet

S.No	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20171MEC0115	MIRZA FASEHULLAH BAIG	30	30	100
2	20171MEC0122	MOHAMMED BILAL V S	30	27	90
3	20191LEE0009	LOKESH	30	26	87
4	20191ECE0311	SUMADHVA V NAIK	30	26	87
5	20181EEE9001	R TEJASWINI	30	28	93
6	20181EEE0056	SHARON PRANATHI M	30	30	100
7	20191ECE0240	PIDAPA TEJ KIRAN REDDY	30	25	83
8	20191EEE0007	BADR ABDULRAHMAN MOHAMMED MANSOOR	30	24	80
9	20181EEE0039	PANDLA GURU SAI GOUD	30	30	100
10	20191EEE0017	MOHAMMAD ZAID FAROOQ	30	26	87
11	20181EEE0072	YASSER AHAMED KHAISAR	30	28	93
12	20181EEE0021	JAHNAVI J P	30	25	83
13	20191EEE0051	YASHASH N	30	28	93
14	20191EEE0011	KEERTHANA B R	30	28	93
15	20191EEE0050	YARRABALLI NAVEEN	30	30	100
16	20181EEE0068	VARSHA ANIL	30	26	87
17	20191EEE9003	SRINIVAS K	30	28	93
18	20181EEE0061	SREEVATSA P M	30	25	83
19	20191EEE0033	ROSHAN S	30	26	87
20	20191EEE0025	P ABHINAV	30	26	73
21	20181EEE0031	MALLIKARJUN M HIREMATH	30	22	65
22	20181EEE0047	RAJATH KRISHNA R	30	30	100
23	20191ECE0302	SOMARA SANJAY	30	28	90
24	20181EEE0071	YAMAVARAM MADHU SUDHAN	30	26	87



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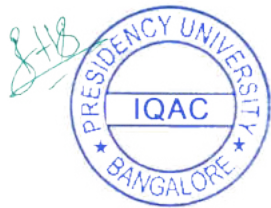
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26	20191EEE0045	SIVA PRASAD L	30	28	93
27	20181EEE9008	BHARATH S	30	30	100
28	20191LEE9003	VISHAK VIJAYA KUMAR	30	25	83
29	20191LEE0008	PANCHENDRA	30	25	83
30	20181EEE0060	SOUMYA T	30	30	100
31	20191LEE9002	N SHIVA TULSHI KUMAR	30	26	87
32	20191LEE0006	DHEERAJ C	30	28	93
33	20191ECE0284	SHAIK ASIF ALI	30	18	69
34	20181EEE0010	BATHALA PRASHANTH	30	28	93
35	20191EEE0040	SAPNA N	30	28	93
36	20191ECE0327	TARIBOYANA CHARAN	30	26	78
37	20191EEE0018	MOHAMMED NOORUDDIN ASRAR	30	28	93
38	20191EEE0008	BINDHU D	30	10	85
39	20191EEE0024	NAVYA SHREE M	30	10	86
40	20171EEE0002	ABHISHEK B N	30	30	100
41	20171EEE0003	ADIL JEBRAN	30	26	87
42	20171EEE0004	AHMED	30	28	93
43	20171EEE0005	AISHWARYA S	30	20	78
44	20171EEE0007	AKSHAY B	30	28	93
45	20171EEE0008	AKSHAY KUMAR J UPARKAR	30	28	93
46	20171EEE0009	ANUSHA DESHPANDE S	30	23	74
47	20171EEE0010	ARJUN SINGH KUSHWAH	30	28	93
48	20171EEE0013	BISHWAKARMA KUMAR	30	10	65
49	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	30	10	65
50	20171EEE0016	EMILY JOSEPH	30	25	83
51	20171EEE0017	EPHNOTH M	30	28	93
52	20171EEE0020	HARPREET SINGH	30	28	93
53	20171EEE0022	HUMAIRA TARANNUM	30	30	100
54	20171EEE0023	JYOTHI T	30	26	87
55	20171EEE0024	KEERTHANA D	30	28	93
56	20171EEE0026	KUMARI CHANCHAL	30	25	83



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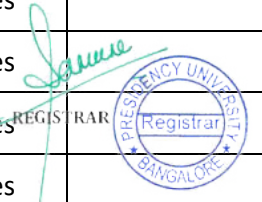
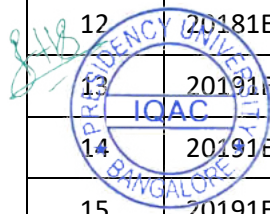
(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

57	20171EEE0027	KUSUMA A	30	26	87
58	20171EEE0032	MD AFFAN KHAN	30	19	69
59	20171EEE0034	MD RASHIDUL ISLAM KHAN	30	19	75
60	20171EEE0035	MELVIN MOSES YOUNG	30	30	100
61	20171EEE0036	MOHAMMED GOUSE SAB M K	30	21	83
62	20171EEE0037	MOHAMMED SALEHA RAFI	30	26	87
63	20171EEE0038	MS SANJAY	30	26	87
64	20171EEE0040	NAVEEN KUMAR A	30	28	93
65	20171EEE0041	NAVEEN P	30	30	100
66	20171EEE0042	NEERUGATTI SUNIL	30	25	83
67	20171EEE0044	NIKHIL RAMESH	30	25	83
68	20171EEE0046	PATAN ISMAIL ALLI KHAN	30	30	100
69	20171EEE0047	PRIYA S	30	26	87
70	20171EEE0048	HATEM ATA TAHER ABDULAZIZ ATA	30	28	93
71	20171EEE0049	PUNEETH KUMAR C	30	18	65
72	20171EEE0050	PUNITH T P	30	28	93
73	20171EEE0051	RAKESH G	30	28	93
Signature of Course Instructor					



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheet

Course Code :	EEEEV015		Academic Year :			2020-21	
Course Name :	Introduction and Modelling of Electric and Hybrid Electric Vehicles using MAPLESOFT		Semester :			Even Semester	
			Instructor-in-Charge Name:			Ms. Ramya K	
			Instructor-in-Charge Employee ID :			PUNIV01211	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20171MEC0115	MIRZA FASEHULLAH BAIG	SOE	100	82	Yes	
2	20171MEC0122	MOHAMMED BILAL V S	SOE	90	75	Yes	
3	20191LEE0009	LOKESH	SOE	87	68	Yes	
4	20191ECE0311	SUMADHVA V NAIK	SOE	87	78	Yes	
5	20181EEE9001	R TEJASWINI	SOE	93	90	Yes	
6	20181EEE0056	SHARON PRANATHI M	SOE	100	89	Yes	
7	20191ECE0240	PIDAPA TEJ KIRAN REDDY	SOE	83	65	Yes	
8	20191EEE0007	BADR ABDULRAHMAN MOHAMMED MANSOOR	SOE	80	56	Yes	
9	20181EEE0039	PANDLA GURU SAI GOUD	SOE	100	54	Yes	
10	20191EEE0017	MOHAMMAD ZAID FAROOQ	SOE	87	84	Yes	
11	20181EEE0072	YASSER AHAMED KHAISAR	SOE	93	76	Yes	
12	20181EEE0021	JAHNAVI J P	SOE	83	40	Yes	
13	20191EEE0051	YASHASH N	SOE	93	45	Yes	
14	20191EEE0011	KEERTHANA B R	SOE	93	54	Yes	
15	20191EEE0050	YARRABALLI NAVEEN	SOE	100	60	Yes	
16	20181EEE0068	VARSHA ANIL	SOE	87	56	Yes	

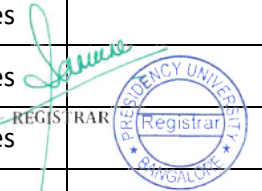
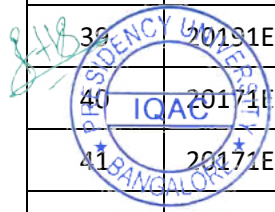




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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

17	20191EEE9003	SRINIVAS K	SOE	93	89	Yes	
18	20181EEE0061	SREEVATSA P M	SOE	83	65	Yes	
19	20191EEE0033	ROSHAN S	SOE	87	56	Yes	
20	20191EEE0025	P ABHINAV	SOE	73	54	Yes	
21	20181EEE0031	MALLIKARJUN M HIEMATH	SOE	65	84	Yes	
22	20181EEE0047	RAJATH KRISHNA R	SOE	100	76	Yes	
23	20191ECE0302	SOMARA SANJAY	SOE	90	82	Yes	
24	20181EEE0071	YAMAVARAM MADHU SUDHAN	SOE	87	75	Yes	
25	20191EEE0013	KOTHAKOTA JAI RAMAKRISHNA	SOE	87	68	Yes	
26	20191EEE0045	SIVA PRASAD L	SOE	93	78	Yes	
27	20181EEE9008	BHARATH S	SOE	100	90	Yes	
28	20191LEE9003	VISHAK VIJAYA KUMAR	SOE	83	89	Yes	
29	20191LEE0008	PANCHENDRA	SOE	83	65	Yes	
30	20181EEE0060	SOUMYA T	SOE	100	56	Yes	
31	20191LEE9002	N SHIVA TULSHI KUMAR	SOE	87	54	Yes	
32	20191LEE0006	DHEERAJ C	SOE	93	84	Yes	
33	20191ECE0284	SHAIK ASIF ALI	SOE	69	76	Yes	
34	20181EEE0010	BATHALA PRASHANTH	SOE	93	40	Yes	
35	20191EEE0040	SAPNA N	SOE	93	45	Yes	
36	20191ECE0327	TARIBOYANA CHARAN	SOE	78	54	Yes	
37	20191EEE0018	MOHAMMED NOORUDDIN ASRAR	SOE	93	60	Yes	
38	20191EEE0008	BINDHU D	SOE	85	56	Yes	
39	20191EEE0024	NAVYA SHREE M	SOE	86	89	Yes	
40	20171EEE0002	ABHISHEK B N	SOE	100	76	Yes	
41	20171EEE0003	ADIL JEBRAN	SOE	87	40	Yes	
42	20171EEE0004	AHMED	SOE	93	45	Yes	
43	20171EEE0005	AISHWARYA S	SOE	78	54	Yes	





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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

44	20171EEE0007	AKSHAY B	SOE	93	60	Yes	
45	20171EEE0008	AKSHAY KUMAR J UPARKAR	SOE	93	56	Yes	
46	20171EEE0009	ANUSHA DESHPANDE S	SOE	74	89	Yes	
47	20171EEE0010	ARJUN SINGH KUSHWAH	SOE	93	40	Yes	
48	20171EEE0013	BISHWAKARMA KUMAR	SOE	65	43	Yes	
49	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	SOE	65	56	Yes	
50	20171EEE0016	EMILY JOSEPH	SOE	83	89	Yes	
51	20171EEE0017	EPHNOTH M	SOE	93	76	Yes	
52	20171EEE0020	HARPREET SINGH	SOE	93	40	Yes	
53	20171EEE0022	HUMAIRA TARANNUM	SOE	100	45	Yes	
54	20171EEE0023	JYOTHI T	SOE	87	54	Yes	
55	20171EEE0024	KEERTHANA D	SOE	93	60	Yes	
56	20171EEE0026	KUMARI CHANCHAL	SOE	83	56	Yes	
57	20171EEE0027	KUSUMA A	SOE	87	89	Yes	
58	20171EEE0032	MD AFFAN KHAN	SOE	69	60	Yes	
59	20171EEE0034	MD RASHIDUL ISLAM KHAN	SOE	75	56	Yes	
60	20171EEE0035	MELVIN MOSES YOUNG	SOE	100	89	Yes	
61	20171EEE0036	MOHAMMED GOUSE SAB M K	SOE	83	43	Yes	
62	20171EEE0037	MOHAMMED SALEHA RAFI	SOE	87	56	Yes	
63	20171EEE0038	MS SANJAY	SOE	87	89	Yes	
64	20171EEE0040	NAVEEN KUMAR A	SOE	93	76	Yes	
65	20171EEE0041	NAVEEN P	SOE	100	75	Yes	
66	20171EEE0042	NEERUGATTI SUNIL	SOE	83	68	Yes	
67	20171EEE0044	NIKHIL RAMESH	SOE	83	78	Yes	
68	20171EEE0046	PATAN ISMAIL ALLI KHAN	SOE	100	90	Yes	REGISTRAR
69	20171EEE0047	PRIYA S	SOE	87	89	Yes	



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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

70	20171EEEE0048	HATEM ATA TAHER ABDULAZIZ ATA	SOE	93	65	Yes	
71	20171EEEE0049	PUNEETH KUMAR C	SOE	65	56	Yes	
72	20171EEEE0050	PUNITH T P	SOE	93	54	Yes	
73	20171EEEE0051	RAKESH G	SOE	93	40	Yes	

Name of Course
Instructor : Ms. Ramya K
Employee ID of Course
Instructor: PUNIV01211

Signature of Instructor-in-charge

Signature of HoD

Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogalurbanke, Yalahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-2021

Course Code:	EEEV016
Course Name:	Design and Simulation of DC-DC converters
Area of Specialization:	Power Electronics
Course Description:	This course is design oriented. There are many dc-dc converter topologies that are used in power supplies. This course emphasises learning and understanding the topologies through the aid of matlab or open sources tools like octave, gEDA and ngSpice. The course starts with a discussion on rectifier circuits and leads on up to multi-output dc-dc converters. The discussion on the various topologies is strengthened with the aid of simulation demonstrations and design exercises.
Course Outcome:	On successful completion of the course the students shall be able to: CO.1. Explain the basics of rectifiers and power semi conductor devices CO.2. Discuss the operation of various isolated and non isolated converters CO.3. Analyse the design fundamentals and simulation of various dc dc converter topologies.
Course Content:	Module No 1: operation and design of rectifiers, Rectifier - Capacitor filter, circuit operation and waveforms, designing the circuit, setting up for simulation in ngSpice/matlab, simulation of circuit [5- Hours] Module No 2: Ideal switch, diodes, reading the diode datasheet, thermal dissipation, heatsink design, Bipolar junction transistor,, MOSFETs and IGBTs [8- Hours] Module No 3: : Linear DC -DC converter or linear regulators, DC-DC switched mode converters : Buck, Boost and buck-boost converters, operation, waveforms, equations and simulation [9- Hours] Module No 4: Forward converter operation, waveforms, , Flyback converter, operation and waveforms, Push pull, half bridge and full bridge circuits, operation and waveforms, simulation example, basics of drive circuits [8- Hours]
Instructor In-charge:	Ms. Ragasudha C P





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School of Engineering Department of Electrical & Electronics Engineering

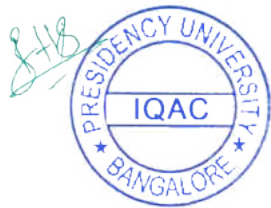
AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Design and Simulation of DC-DC Converters & EEEV016

Name of the Instructor: Ms.Ragasudha C P

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20191EEE0014	KRUTHIKA R	30	15	50.00
2	20171EEE0069	SURAJJ R	30	24	80.00
3	20171EEE0079	AMITHG	30	17	56.67
Signature of Course Instructor					





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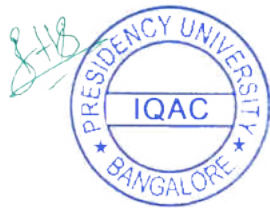
(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

School of Engineering Department of Electrical & Electronics Engineering Value Added Course Marksheet

Course Code :	EEEV016	Academic Year :	2020-21				
Course Name :	Design and Simulation of DC-DC Converters	Semester :	Even Semester				
		Instructor-in-Charge Name:	Ms.Ragasudha C P				
		Instructor-in-Charge Employee ID :	PUNIV01324				
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191EEE0014	KRUTHIKA R	SoE	50.00	Ab	No	Not Eligible for Certificate
2	20171EEE0069	SURAJJ R	SoE	80	76	Yes	
3	20171EEE0079	AMITHG	SoE	56.67	20	No	Not Eligible for Certificate

Name of Course Ms.Ragasudha C P
Instructor:
Employee ID of Course PUNIV01324
Instructor:

Signature of Instructor-in-charge



Signature of HoD

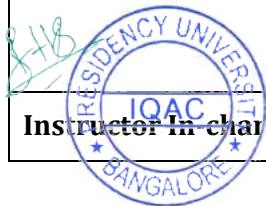
Head of the Department,
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajarubanthe, Yalahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-2021

Course Code:	EEEV017
Course Name:	Design of Fuzzy Logic Systems
Area of Specialization:	Soft Computing Techniques
Course Description:	In this course, an intelligent technique for data processing drawn from complex and imprecise environment are presented and studied. Fuzzy Logic theory is based on the empirical aspect of the human reasoning, and is used in the manipulation of imperfect, imprecise or approximate knowledge. It allows the modeling and processing of very complex systems in which, for example, human factors are present. Theory and applications concerning fuzzy logic exist for more than fifty years. It covers several fields such as artificial intelligence, identification and control of dynamic systems, automatic decision-making in complex systems, and fault diagnosis in industrial processes.
Course Outcome:	On successful completion of the course, the student shall be able to: CO1: Define fuzzy logic theory and membership functions CO2: Discuss operations and properties of fuzzy systems CO3: Describe fuzzy relations and fuzzy rules CO4: Describe fuzzy logic control operations and applications
Course Content:	Module: 1: Introduction to fuzzy set [12 Hrs] [Knowledge Level] Introduction of Fuzzy Logic techniques to manipulate imprecise and approximated data and systems - Fuzzy sets theory and concepts, membership functions, operations on fuzzy sets, triangular norms Module: 2: Fuzzy operations [13 Hrs] [Application Level] Fuzzy relations and fuzzy quantities, fuzzy intervals, fuzzy numbers, operation on fuzzy quantities, Linguistic variables, linguistic modifiers, fuzzy rules, fuzzy quantifiers Module: 3: Fuzzy reasoning [15 Hrs] [Application Level] Fuzzy reasoning, fuzzy implications, Fuzzy control, Mamdani and Larsen methods. Applications - MATLAB simulations using the Fuzzy Toolbox.
Instructor In charge:	Mr. Sarin MV




**School of Engineering
Department of Electrical & Electronics Engineering**

AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Design of Fuzzy Logic Systems & EEEV017

Name of the Instructor: Mr. Sarin M V

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	2016EEE006	TALANK S	30	22	73
2	2016EEE014	ASHISH PANDIT R	30	20	67
3	2016EEE021	RANGASWAMY H	30	26	87
4	2016EEE031	MERIGA MAMATHA	30	22	73
5	20171EEE0003	ADIL JEBRAN	30	25	83
6	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	30	20	67
7	20171EEE0024	KEERTHANA D	30	25	83
8	20171EEE0035	MELVIN MOSES YOUNG	30	19	63
9	20171EEE0042	NEERUGATTI SUNIL	30	29	97
10	20171EEE0049	PUNEETH KUMAR C	30	20	67
11	20171EEE0057	S SHALINI	30	27	90
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	30	22	73
13	20181LEE0018	KAVYA M	30	24	80
14	20181EEE0004	AMULYA A PUROHIT	30	24	80
15	20181EEE0010	BATHALA PRASHANTH	30	25	83
16	20181EEE0016	G SAIKUMAR	30	22	73
17	20181EEE0021	JAHNAVI J P	30	26	87
18	20181EEE0028	KESHAV GANESH	30	26	87
19	20181EEE0037	PALLA REDDAIAH	30	23	77
20	20181EEE0044	PREETHAM HIMAKAR	30	23	77
21	20181EEE0055	SATISH KUMAR	30	24	80
22	20181EEE0067	TEJAS GOWDA M	30	23	77
 Signature of Course Instructor			 REGISTRAR 		

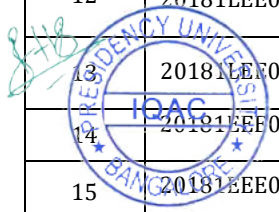


PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

School of Engineering Department of Electrical & Electronics Engineering Value Added Course Marksheet

Course Code :	EEEEV017		Academic Year :			2020-21	
Course Name :	Design of Fuzzy Logic Systems		Semester :			Even Semester	
			Instructor-in-Charge Name:			Mr. Sarin M V	
			Instructor-in-Charge Employee ID :			PUNIV01347	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remarks
1	2016EEEE006	TALANK S	SoE	73	67	N	Not Eligible for Certificate
2	2016EEEE014	ASHISH PANDIT R	SoE	67	61	N	Not Eligible for Certificate
3	2016EEEE021	RANGASWAMY H	SoE	87	79	Y	
4	2016EEEE031	MERIGA MAMATHA	SoE	73	67	N	Not Eligible for Certificate
5	20171EEE0003	ADIL JEBRAN	SoE	83	76	Y	
6	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	SoE	67	61	N	Not Eligible for Certificate
7	20171EEE0024	KEERTHANA D	SoE	83	76	Y	
8	20171EEE0035	MELVIN MOSES YOUNG	SoE	63	58	N	Not Eligible for Certificate
9	20171EEE0042	NEERUGATTI SUNIL	SoE	97	88	Y	
10	20171EEE0049	PUNEETH KUMAR C	SoE	67	61	N	Not Eligible for Certificate
11	20171EEE0057	S SHALINI	SoE	90	82	Y	
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	SoE	73	67	N	Not Eligible for Certificate
13	20181LEE0018	KAVYA M	SoE	80	73	Y	
14	20181LEE0004	AMULYA A PUROHIT	SoE	80	73	Y	
15	20181LEE0010	BATHALA PRASHANTH	SoE	83	76	Y	
16	20181EEE0016	G SAIKUMAR	SoE	73	67	N	Not Eligible for Certificate





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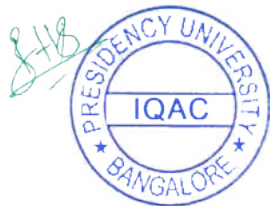
(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

17	20181EEE0021	JAHNAVI J P	SoE	87	79	Y	
18	20181EEE0028	KESHAV GANESH	SoE	87	79	Y	
19	20181EEE0037	PALLA REDDAIAH	SoE	77	70	Y	
20	20181EEE0044	PREETHAM HIMAKAR	SoE	77	70	Y	
21	20181EEE0055	SATISH KUMAR	SoE	80	73	Y	
22	20181EEE0067	TEJAS GOWDA M	SoE	77	70	Y	

Name of Course Mr. Sarin M V
Instructor :
Employee ID of
Course Instructor: PUNIV01347

**Signature of
Instructor-in-charge**

Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kajurubank, Yalahanka, Bengaluru - 56





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-2021

Course Code:	EEEV018
Course Name:	Introduction to MATLAB/Simulink
Area of Specialization:	Power Electronics, Control Systems
Course Description:	This course gives an introduction to MATLAB programming language and Simulink toolbox which is a graphical extension of MATLAB. This technical computing environment helps the students to involve in more intense problem solving applications and provides an opportunity to tackle realistic and more complicated problems.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Discuss the basic features of MATLAB development environment. CO.2. Summarize the MATLAB Graphical user interface. CO.3. Explain various toolboxes in engineering applications. CO.4. Construct Simulink block diagram for the given physical system.
Course Content:	Module No 1: Introduction to MATLAB, how to create variables in MATLAB, constructing M.Files, matrix operations, control flow, various arithmetic and logical operators, graphics, debugging of M.Files [8- Hours] Module No 2: Introduction to Simulink, various Simulink libraries, constructing Simulink block diagram [8- Hours] Module No 3: Toolboxes available in MATLAB: Control system toolbox, Simpower systems toolbox, Fuzzy logic toolbox, Neural network toolbox. [8- Hours] Module No 4: Simulation of various electrical and electronic circuits and block diagrams using Simulink [6- Hours]
Instructor In-charge:	Ms Jisha L K





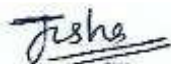
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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

School of Engineering
Department of Electrical & Electronics Engineering
AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Introduction to MATLAB/Simulink & EEEV018
Name of the Instructor: Ms. Jisha L K

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20171EEE9002	FAISAL MARWAN	30	22	75
2	20191EEE0003	ANUSHA M JOLAD	30	23	78
Signature of Course Instructor					



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course Marksheets

Course Code :	EEEV018		Academic Year :			2020-21		
Course Name :	Introduction to MATLAB/Simulink		Semester :			Even Semester		
			Instructor-in-Charge Name:			Ms. Jisha L K		
			Instructor-in-Charge Employee ID :			PUNIV01427		
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark	
1	20171EEE9002	FAISAL MARWAN	SoE	75	80	Y		
2	20191EEE0003	ANUSHA M JOLAD	SoE	78	85	Y		

Name of Course Instructor : Ms. Jisha L K
Employee ID of Course Instructor: PUNIV01427

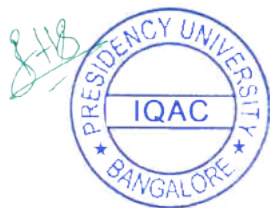


Signature of Instructor-in-charge



Signature of HoD

Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogaluramike, Yalahanka, Bengaluru -54





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2020-21

Course Code:	EEEV019
Course Name:	Solar Energy systems
Area of Specialization:	Electrcal Engineering
Course Description:	Large scale shift to renewable energy resources from fossil fuels is needed in order to limit and reduce the greenhouse gases released by the human use of fossil fuels. Among the renewable energy options available, solar energy represents a promising and major energy resource. This course focuses on solar photovoltaic (PV) energy systems, which convert solar energy into a convenient electrical energy form. We will mainly study the types of electrical components and schemes used in such PV systems. The course will cover the characteristics of solar radiation, PV cells, modules and arrays, stand-alone PV schemes with battery energy storage and grid-connected PV schemes.
Course Outcome:	On successful completion of the course, the student shall be able to: CO.1. Discuss about the importance of renewable energy sources CO.2. Explain about PV cells and modules. CO.3. Discuss about i-v and p-v characteristics of PV cells..
Course Content:	Module No 1: Fossil fuel energy usage and global warming; role of renewable energy in sustainable development; renewable energy sources; global potential for solar electrical energy systems. Solar radiation. [10- Hours] Module No 2: Extra terrestrial and terrestrial solar spectrum; clear sky direct-beam radiation; total clear sky insulation on a collecting surface; radiation on the collector in tracking systems; calculation of average monthly insolation from measured data. PV cells and modules [10- Hours] Module No 3: Photovoltaic cell and its simple model; i-v and p-v characteristics; PV modules and arrays; effect of shading, use of bypass and blocking diodes; influence of temperature; types of solar cells and their performance; schemes for maximum power point tracking; solar PV concentrators. PV inverters [10- Hours]
Instructor In-charge:	Mr. Sukumar S.J





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School of Engineering Department of Electrical & Electronics Engineering

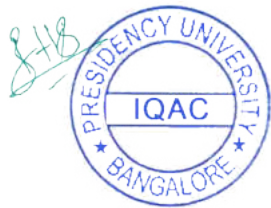
AY 2020-21 (Even Sem)

Value added Course(VAC) Name and Code: Solar Energy systems & EEEV019

Name of the Instructor: Mr. Sukumar S.J

Attendance Sheet

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20191EEE0052	YASHWANTH N	30	23	75%
2	20171EEE0075	WAIL FUAD GHANEM HAZAEA AQLAN	30	22	73%
3	20171EEE0081	SYED FARDEEN	30	22	73%
Signature of Course Instructor					





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School of Engineering Department of Electrical & Electronics Engineering Value Added Course Marksheet

Course Code :	EEEEV019	Academic Year :	2020-21				
Course Name :	Solar Energy systems	Semester :	Even Semester				
		Instructor-in-Charge Name:	Mr. Sukumar S.J.				
		Instructor-in-Charge Employee ID :	PUNIV01447				
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191EEE0052	YASHWANTH N	SoE	75	60	Yes	
2	20171EEE0075	WAIL FUAD GHANEM HAZAEA AQLAN	SoE	73	30	No	Not Eligible for Certificate
3	20171EEE0081	SYED FARDEEN	SoE	73	25	No	Not Eligible for Certificate

Name of Course
Instructor : Mr. Sukumar S.J
Employee ID of Course
Instructor: PUNIV01447


Signature of Instructor-in-charge


Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogalur, Yelahanka, Bengaluru - 56

