



PRESIDENCY UNIVERSITY

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

PU-SoE-EEE 2019-20

Ref. No. PU/ SoE/ EEE /2019-20/VAC/CIR/01

31-12-2019

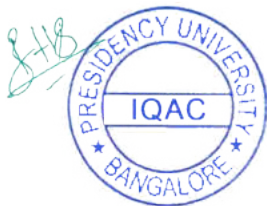
CIRCULAR

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 2019-20 (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. V Joshi Manohar
3.	EEEV003	MATLAB Programming and Simulink for Power Electronic converters	Mr.K.Sreekanth Reddy
4.	EEEV005	AutoCAD for Electrical Engineers	Mr. Ravi V Angadi
5.	EEEV006	Solar Cells - Past, Present and Future	Ms.Ramya K
6.	EEEV008	Hybrid Energy Storage System	Mr. Nageswara Rao A
7.	EEEV009	Fundamentals of Electric and Hybrid Electric Vehicles	Ms. Ragasudha C P
8.	EEEV010	Pulse Width Modulation For Multilevel Converter	Dr Snehaprabha T 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.



Dr. Snehaprabha T V
HOD - EEE
Registrar



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

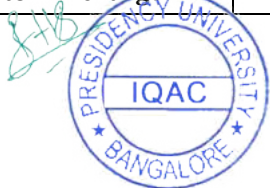
Campus: Presidency University, Itgalpura, Rajanukunte, Bengaluru - 560064

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 2019-2020

Course Code:	EEEV001
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 2019-20 (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	20161EEE0002	SHIVASAGAR M	30	23	77
2	20161EEE0010	GAGAN R B	30	21	70
3	20161EEE0025	ANAS SHAIKH MAHMOOD	30	27	90
4	20171LEE0002	SANJAY MALLIK	30	23	77
5	20171EEE0007	AKSHAY B	30	26	87
6	20171EEE0008	AKSHAY KUMAR J UPARKAR	30	21	70
7	20171EEE0020	HARPREET SINGH	30	26	87
8	20171EEE0032	MD AFFAN KHAN	30	20	67
9	20171EEE0040	NAVEEN KUMAR A	30	30	100
10	20171EEE0052	RAKSHITH T	30	21	70
11	20171EEE0066	SOPHIE SALINS	30	28	93
12	20171EEE0070	SYED MUIZZ AHMED	30	23	77
13	20171EEE0077	DUDEKULA BASHEER BABA	30	25	83
14	20171EEE0082	VARSHA A	30	25	83
15	20181LEE0003	HEMANTH KUMAR M L	30	26	87
16	20181LEE0016	SACHIN SANGAMESH DIVATAGI	30	23	77
17	20181EEE0001	ABHINAV SURESH	30	27	90
18	20181EEE0007	ARVINDGOWDA C N	30	27	90
19	20181EEE0014	DEEKSHITHA N	30	24	80
20	20181EEE0019	HANUMANTH KUMAR A	30	24	80
21	20181EEE0025	K SHRAVAN KUMAR	30	25	83
22	20181EEE0034	MOHAMMED NASIR	30	24	80
23	20181EEE0038	PALLAVI R	30	27	90
24	20191LEE0001	NIHARIKA H	30	28	93
25	20191LEE0003	BASAVAKUMAR S HIREHAL	30	24	80
26	20191LEE0006	DHEERAJ C	30	26	87
27	20191EEE0001	ABHISHEK C	30	13	43



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28	20191EEE0022	NANDA KISHORE KIRAN DESHPANDE	30	13	43
29	20191EEE0040	SAPNA N	30	14	46
Signature of Course Instructor					





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

Course Code :	EEEV001	Academic Year :			2019-20		
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	20161EEE0002	SHIVASAGAR M	SoE	73	66	No	Not Eligible for Certificate
2	20161EEE0010	GAGAN R B	SoE	66	60	No	Not Eligible for Certificate
3	20161EEE0025	ANAS SHAIKH MAHMOOD	SoE	86	78	Yes	
4	20171LEE0002	SANJAY MALLIK	SoE	73	66	No	Not Eligible for Certificate
5	20171EEE0007	AKSHAY B	SoE	83	75	Yes	
6	20171EEE0008	AKSHAY KUMAR J UPARKAR	SoE	66	60	No	Not Eligible for Certificate
7	20171EEE0020	HARPREET SINGH	SoE	83	75	Yes	
8	20171EEE0032	MD AFFAN KHAN	SoE	63	57	No	Not Eligible for Certificate
9	20171EEE0040	NAVEEN KUMAR A	SoE	96	87	Yes	
10	20171EEE0052	RAKSHITH T	SoE	66	60	No	Not Eligible for Certificate
11	20171EEE0066	SOPHIE SALINS	SoE	89	81	Yes	
12	20171EEE0070	SYED MUIZZ AHMED	SoE	73	66	No	Not Eligible for Certificate
13	20171EEE0077	DUDEKULA BASHEER BABA	SoE	79	72	Yes	
14	20171EEE0082	VARSHA A	SoE	79	72	Yes	
15	20181LEE0003	HEMANTH KUMAR M L	SoE	83	75	Yes	
16	20181LEE0013	SACHIN SANGAMESH DIVATAGI	SoE	73	66	No	Not Eligible for Certificate
17	20181EEE0001	ABHINAV SURESH	SoE	86	78	Yes	
18	20181EEE0007	ARVINDGOWDA C N	SoE	86	78	Yes	
19	20181EEE0014	DEEKSHITHA N	SoE	76	69	Yes	
20	20181EEE0019	HANUMANTH KUMAR A	SoE	76	69	Yes	



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21	20181EEE0025	K SHRAVAN KUMAR	SoE	79	72	Yes	
22	20181EEE0034	MOHAMMED NASIR	SoE	76	69	Yes	
23	20181EEE0038	PALLAVI R	SoE	86	78	Yes	
24	20191LEE0001	NIHARIKA H	SoE	89	81	Yes	
25	20191LEE0003	BASAVAKUMAR S HIREHAL	SoE	76	69	Yes	
26	20191LEE0006	DHEERAJ C	SoE	83	75	Yes	
27	20191EEE0001	ABHISHEK C	SoE	55	20	No	Not Eligible for Certificate
28	20191EEE0022	NANDA KISHORE KIRAN DESHPANDE	SoE	64	10	No	Not Eligible for Certificate
29	20191EEE0040	SAPNA N	SoE	70	25	No	Not Eligible for Certificate

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
Kogaluramatta, Yalahanka, Bengaluru -64





Department of Electrical & Electronics Engineering

Value Added Courses to be offered during the Odd Semester Break 2019-2020

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: 1. List out the renewable energy sources 2. Describe the concept of green building 3. Explain the process of the bussiness model 4. Develop a project using real time data
Course Content:	Module No 1: Introduction to Green Building: Reviews of various renewable energy sources and the concept of green building, [8- Hours] Module No 2: Start Ups in oppurtunities renewable energy sector and case study of solar plant start up . Take real world first steps towards launching a new business or corporate initiative [10 Hours] Module No 3: Identification of any two problems with either renewable energy or green building products or services. - Plan for engaging with investors who might finance a new business[12 Hours]
Instructor In-charge:	Dr Joshi Manohar V



Presidency University, Bengaluru

Department of Electrical and Electronics Engineering

School of Engineering

VAC DETAILS

Total number of hours:30

AY 2019-20 ODD Semester

Value added Course(VAC) Name and Code:RENEWABLE ENERGY AND GREEN BUILDING

ENTREPRENUERSHIP & EEEV002

Name of the Instructor:Dr. V Joshi Manohar

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	2016EEE008	ARCHANA S S	30	22	73.33
2	2016EEE015	BALAJI R	30	27	90.00
3	2016EEE022	AKANKSHA PRAJAPATI	30	23	76.67
4	2016EEE034	JASU AISHWARYA	30	26	86.67
5	20171EEE0004	AHMED	30	27	90.00
6	20171EEE0016	EMILY JOSEPH	30	25	83.33
7	20171EEE0026	KUMARI CHANCHAL	30	21	70.00
8	20171EEE0036	MOHAMMED GOUSE SAB M K	30	25	83.33
9	20171EEE0044	NIKHIL RAMESH	30	22	73.33
10	20171EEE0050	PUNITH T P	30	24	80.00
11	20171EEE0061	SHANKAR MOHITH KUMAR	30	27	90.00
12	20171EEE0068	SUPRITH B	30	27	90.00
13	20171EEE0075	WAIL FAUD GHANEM HAZAEA AQLAN	30	24	80.00
14	20171EEE0079	AMITH G	30	24	80.00
15	20181LEE0013	VARDHAN B O	30	26	86.67
16	20181LEE0019	SINDHU P	30	22	73.33
17	20181EEE0005	ANKIT KUMAR SHARMA	30	24	80.00
18	20181EEE0012	BOGGULA MARUTHI MANOHAR REDDY	30	24	80.00
19	20181EEE0017	G.D.S DHEERAJ	30	23	76.67
20	20181EEE0022	JAYASHREE SAHU	30	25	83.33
21	20181EEE0031	MALLIKARJUN M HIREMATH	30	24	80.00
22	20191LEE9003	VISHAK VIJAYA KUMAR	30	24	80.00
23	20181EEE0045	PUNITH K KULAL	30	22	73.33
24	20181EEE0051	SAI HRITHIK P K	30	19	63.33
25	20181EEE0056	SHARON PRANATHI M	30	15	50.00
26	20181EEE0061	SREEVATSA P M	30	20	66.67
27	20181EEE0068	VARSHA ANIL	30	23	76.67
28	20181EEE0072	YASSER AHAMED KHAISAR	30	25	83.33
29	20181EEE9003	SYED ZABI SAMEER	30	23	76.67
30	20191LEE0010	S R GURUPRASAD	30	24	80.00
31	20191EEE0011	KEERTHANA B R	30	19	63.33
32	20191EEE0034	PRUTHI VIRAJ D KUDACHI	30	15	50.00
33	20191EEE0050	YARRABALLI NAVEEN	30	20	66.67
34	20181EEE9001	KRISHNASWINI	30	19	63.33
35	20191LEE0005	KUSHAL S	30	15	50.00
36	20171EEE9002	FAISAL MARWAN	30	20	66.67

Signature of Course Instructor

REGISTRAR



Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :		EEEE002		Academic Year :			2019-20	
Course Name :		RENEWABLE ENERGY AND GREEN BUILDING ENTREPRENUERSHIP		Semester :			Odd Semester	
				Instructor-in-Charge Name :			Dr V Joshi Manohar	
				Instructor-in-Charge Employee ID			PUNIV01153	
S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1		2016EEE008	ARCHANA S S	SoE	73.33	65	Yes	
2		2016EEE015	BALAJI R	SoE	90.00	90	Yes	
3		2016EEE022	AKANKSHA PRAJAPATI	SoE	82.14	85	Yes	
4		2016EEE034	JASU AISHWARYA	SoE	86.67	65	Yes	
5		20171EEE0004	AHMED	SoE	90.00	74	Yes	
6		20171EEE0016	EMILY JOSEPH	SoE	83.33	56	Yes	
7		20171EEE0026	KUMARI CHANCHAL	SoE	70.00	89	Yes	
8		20171EEE0036	MOHAMMED GOUSE SAB M K	SoE	83.33	76	Yes	
9		20171EEE0044	NIKHIL RAMESH	SoE	73.33	54	Yes	
10		20171EEE0050	PUNITH T P	SoE	80.00	43	Yes	
11		20171EEE0061	SHANKAR MOHITH KUMAR	SoE	90.00	57	Yes	
12		20171EEE0068	SUPRITH B	SoE	90.00	60	Yes	
13		20171EEE0075	WAIL FAUD GHANEM HAZAEA AQLAN	SoE	80.00	78	Yes	
14		20171EEE0079	AMITH G	SoE	80.00	76	Yes	
15		20181LEE0013	VARDHAN B O	SoE	86.67	80	Yes	
16		20181LEE0019	SINDHU P	SoE	73.33	66	Yes	
17		20181EEE0005	ANKIT KUMAR SHARMA	SoE	80.00	76	Yes	
18		20181EEE0012	BOGGULA MARUTHI MANOHAR REDDY	SoE	82.76	78	Yes	
19		20181EEE0017	G.D.S DHEERAJ	SoE	76.67	87	Yes	
20		20181EEE0022	JAYASHREE SAHU	SoE	86.21	78	Yes	
21		20181EEE0031	MALLIKARJUN M HIREMATH	SoE	80.00	85	Yes	
22		20191LEE9003	VISHAK VIJAYA KUMAR	SoE	80.00	76	Yes	
23		20181EEE0045	PUNITH K KULAL	SoE	75.86	54	Yes	
24		20181EEE0051	SAI HRITHIK P K	SoE	63.33	35	No	
25		20181EEE0056	SHARON PRANATHI M	SoE	50.00	30	No	
26		20181EEE0061	SREEVATSA P M	SoE	66.67	45	Yes	
27		20181EEE0068	VARSHA ANIL	SoE	76.67	77	Yes	
28		20181EEE0072	YASSER AHAMED KHAISAR	SoE	83.33	65	Yes	
29		20181EEE9003	SYED ZABI SAMEER	SoE	76.67	66	Yes	
30		20191LEE0010	S R GURUPRASAD	SoE	80.00	70	Yes	
31		20191EEE0011	KEERTHANA B R	SoE	63.33	35	No	
32		20191EEE0031	PRUTHVIRAJ D KUDACHI	SoE	50.00	30	No	
33		20191EEE0050	YARRABALLI NAVEEN	SoE	66.67	20	No	
34		20181EEE9001	R TEJASWINI	SoE	63.33	30	No	
35		20191LEE0005	KUSHAL S	SoE	50.00	25	No	
36		20171EEE9002	FAISAL MARWAN	SoE	66.67	20	No	

Name of Course Instructor 1:

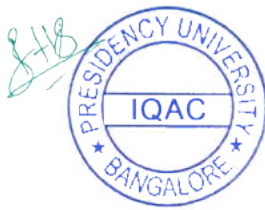
Dr. V Joshi Manohar

Employee ID of Course Instructor 1:

PUNIV01153



Signature of Instructor-in-Charge



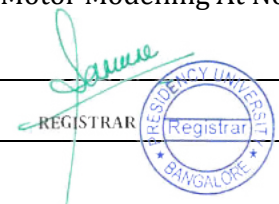
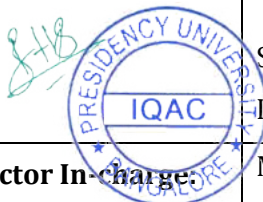
Head of the Department,
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
BANGALORE, Bengaluru - 56






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

Course Code:	EEEV003
Course Name:	MATLAB Programming and Simulink for Power Electronic converters
Area of Specialization:	Electrical 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 2019-20 (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

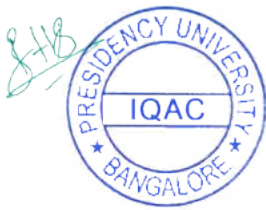
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20171EEE0023	JYOTHI T	30	25	83.33
2	20171EEE0034	MD RASHIDUL ISLAM KHAN	30	25	83.33
3	20171EEE0041	NAVEEN P	30	28	93.33
4	20171EEE0048	HATEM ATA TAHER ABDULAZIZ ATA	30	25	83.33
5	20171EEE0056	S HARIVIGNESH	30	28	93.33
6	20181LEE0007	GANESH KUMAR SINGH	30	14	46.67
7	20181LEE0017	RAVANA K N	30	24	80.00
8	20181EEE0002	ABHISHEK R BHARADWAJ	30	24	80.00
9	20181EEE0008	B H LAVANYA	30	29	96.67
10	20181EEE0015	FARHAN MUKHTIAR ABDUL Late	30	13	43.33
11	20181EEE0020	HARIKRISHN V	30	28	93.33
12	20181EEE0026	KALYAN CH	30	25	83.33
13	20181EEE0036	PAGADALA REVANTH NATH	30	29	96.67
14	20181EEE0042	PRAJWAL S	30	19	63.33
15	20181EEE0050	SADIYA TAHERA	30	28	93.33
16	20181EEE0054	SANJAY KUMAR S C	30	23	76.67
17	20181EEE0060	SOUMYA T	30	28	93.33
18	20181EEE0066	SYED IDREES QUADRI	30	17	56.67
19	20181EEE0071	YAMAVARAM MADHU SUDHAN	30	17	56.67
20	20181EEE0075	T POORNIMA	30	24	80.00
21	20191LEE0009	LOKESH M	30	26	86.67
22	20191LEE0013	NAGARAJU V	30	24	80.00
23	20191EEE0003	ANUSHA M JOLAD	30	17	56.67



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24	20191EEE0023	NAVYA N	30	17	56.67
25	20191EEE0041	SHAIK MUNEER	30	19	63.33
26	20191LEE0004	RAVI KUMAR K	30	13	43.33
27	20171EEE0067	SONIA G	30	14	46.67
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 :	EEEEV003		Academic Year :			2019-20	
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	20171EEE0023	JYOTHI T	SoE	83.33	64	Yes	
2	20171EEE0034	MD RASHIDUL ISLAM KHAN	SoE	83.33	58	Yes	
3	20171EEE0041	NAVEEN P	SoE	93.33	62	Yes	
4	20171EEE0048	HATEM ATA TAHER ABDULAZIZ ATA	SoE	83.33	53	Yes	
5	20171EEE0056	S HARIVIGNESH	SoE	93.33	81	Yes	
6	20181LEE0007	GANESH KUMAR SINGH	SoE	46.67	20	No	Not Eligible for Certificate
7	20181LEE0017	RAVANA K N	SoE	80.00	52	Yes	
8	20181EEE0002	ABHISHEK R BHARADWAJ	SoE	80.00	57	Yes	
9	20181EEE0008	B H LAVANYA	SoE	96.67	67	Yes	
10	20181EEE0015	FARHAN MUKHTIAR ABDUL Late	SoE	43.33	Ab	No	Not Eligible for Certificate
11	20181EEE0020	HARIKRISHN V	SoE	93.33	60	Yes	
12	20181EEE0026	KALYAN CH	SoE	83.33	75	Yes	
13	20181EEE0036	PAGADALA REVANTH NATH	SoE	96.67	60	Yes	
14	20181EEE0042	PRAJWAL S	SoE	63.33	43	No	Not Eligible for Certificate
15	20181EEE0050	SADIYA TAHERA	SoE	93.33	54	Yes	
16	20181EEE0054	SANJAY KUMAR S C	SoE	76.67	63	Yes	
17	20181EEE0060	SOUMYA T	SoE	93.33	61	Yes	
18	20181EEE0066	SYED IDREES QUADRI	SoE	56.67	31	No	Not Eligible for Certificate



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19	20181EEE0071	YAMAVARAM MADHU SUDHAN	SoE	56.67	24	No	Not Eligible for Certificate
20	20181EEE0075	T POORNIMA	SoE	80.00	51	Yes	
21	20191LEE0009	LOKESH M	SoE	86.67	62	Yes	
22	20191LEE0013	NAGARAJU V	SoE	80.00	66	Yes	
23	20191EEE0003	ANUSHA M JOLAD	SoE	56.67	30	No	Not Eligible for Certificate
24	20191EEE0023	NAVYA N	SoE	56.67	25	No	Not Eligible for Certificate
25	20191EEE0041	SHAIK MUNEEER	SoE	63.33	20	No	Not Eligible for Certificate
26	20191LEE0004	RAVI KUMAR K	SoE	43.33	10	No	Not Eligible for Certificate
27	20171EEE0067	SONIA G	SoE	46.67	25	No	Not Eligible for Certificate

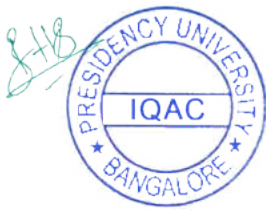
Name of Course : Mr. K Sreekanth Reddy
Instructor :
Employee ID of : PUNIV00489
Course Instructor:

K. Sreekanth Reddy

**Signature of
Instructor-in-charge**

[Signature]

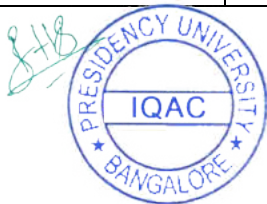
Signature of HoD
Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogaluramatta, Yalahanka, Bengaluru -64





School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Odd Semester 2019-20

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



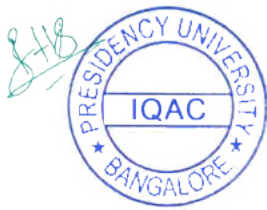


School of Engineering
Department of Electrical & Electronics Engineering
AY 2019-20 (Odd Sem)

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	2016EEE003	ISMAIL ZAIN S A	30	30	100.00
2	2016EEE008	ARCHANA S S	30	27	90.00
3	2016EEE010	GAGAN R B	30	26	86.67
4	2016EEE013	BHARATH V	30	26	86.67
5	2016EEE014	ASHISH PANDIT R	30	28	93.33
6	2016EEE015	BALAJI R	30	30	100.00
7	2016EEE018	DHINU S	30	25	83.33
8	2016EEE019	ABHISHEK SANGOLI	30	4	13.33
9	2016EEE022	AKANKSHA PRAJAPATI	30	30	100.00
10	2016EEE025	ANAS SHAIKH MAHMOOD	30	26	86.67
11	2016EEE026	CHAGI ANIRUDH	30	28	93.33
12	2016EEE034	JASU AISHWARYA	30	25	83.33
13	2016EEE035	JERLIN JOY	30	28	93.33
14	2017LEE005	AMRUTHA	30	28	93.33
Signature of Course Instructor					



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

Course Code :	EEEEV005		Academic Year :			2019-20	
Course Name :	AutoCAD for Electrical Engineers		Semester :			Odd 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	2016EEE003	ISMAIL ZAIN S A	SoE	100.00	56	Yes	
2	2016EEE008	ARCHANA S S	SoE	90.00	60	Yes	
3	2016EEE010	GAGAN R B	SoE	86.67	74	Yes	
4	2016EEE013	BHARATH V	SoE	86.67	63	Yes	
5	2016EEE014	ASHISH PANDIT R	SoE	93.33	78	Yes	
6	2016EEE015	BALAJI R	SoE	100.00	56	Yes	
7	2016EEE018	DHINU S	SoE	83.33	70	Yes	
8	2016EEE019	ABHISHEK SANGOLI	SoE	13.33	Ab	No	Not Eligible for Certificate
9	2016EEE022	AKANKSHA PRAJAPATI	SoE	100.00	80	Yes	
10	2016EEE025	ANAS SHAIKH MAHMOOD	SoE	86.67	56	Yes	
11	2016EEE026	CHAGI ANIRUDH	SoE	93.33	60	Yes	
12	2016EEE034	JASU AISHWARYA	SoE	83.33	75	Yes	
13	2016EEE035	JERLIN JOY	SoE	93.33	82	Yes	
14	2017LEE005	AMRUTHA	SoE	93.33	69	Yes	

Name of Course

Instructor :

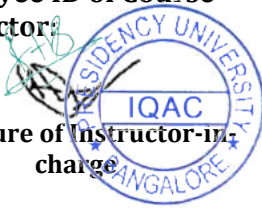
Mr. Ravi V Angadi

Employee ID of Course

Instructor:

PUNIV01021

Signature of Instructor-in-charge



Presidency University
IQAC
Bangalore

Signature of HoD



Head of the Department
Electrical & Electronics Engineering
REGISTRAR
School of Engineering
PRESIDENCY UNIVERSITY
Bangalore



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

Course Code:	EEEV006
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 2019-20 (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

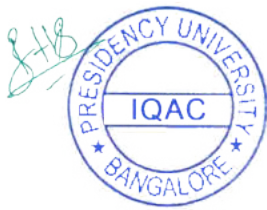
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	2016EEE002	SHIVASAGAR M	30	22	73.33
2	2016EEE010	GAGAN R B	30	27	90.00
3	2016EEE025	ANAS SHAIKH MAHMOOD	30	16	53.33
4	2017LEE002	SANJAY MALLIK	30	26	86.67
5	20171EEE0007	AKSHAY B	30	27	90.00
6	20171EEE0008	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	29	24	82.76
19	20181EEE0014	DEEKSHITHA N	30	23	76.67
20	20181EEE0019	HANUMANTH KUMAR A	29	25	86.21
21	20181EEE0025	K SHRAVAN KUMAR	30	24	80.00
22	20181EEE0034	MOHAMMED NASIR	30	24	80.00
23	20181EEE0038	PALLAVI R	29	22	75.86
24	20191LEE0001	NIHARIKA H	30	19	63.33
25	20191LEE0003	BASAVAKUMAR S HIREHAL	30	15	50.00
26	20191LEE0006	DHEERAJ C	30	20	66.67



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27	20181EEE0039	PANDLA GURU SAI GOUD	30	23	76.67
28	20181EEE0048	RITHIK R K	30	25	83.33
29	20181EEE0053	SAMI UL ARFAATH	30	23	76.67
30	20181EEE0059	SONU B M	30	24	80.00
31	20181EEE0064	SURABHI M Y	30	25	83.33
32	20181EEE0070	WASEELKHAN WASEELKHAN	30	16	53.33
33	20181EEE0074	POOJA B S PATEL	30	27	90.00
34	20191LEE0008	PANCHENDRA H D	30	16	53.33
35	20191LEE0012	ARJUN CHHETRY	30	26	86.67
36	20191EEE0013	KOTHAKOTA JAI RAMAKRISHNA	30	19	63.33
37	20191EEE0033	ROSHAN S	30	15	50.00
38	20191EEE0052	YASHWANTH N	30	20	66.67
Signature of Course Instructor					





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

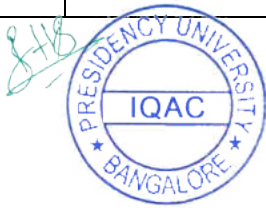
Course Code :	EEEV006		Academic Year :			2019-20	
Course Name :	Solar Cells - Past, Present and Future		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Ms. Ramya K	
			Instructor-in-Charge Employee ID :			PUNIV01211	
S. No	Roll No	Name	School SoE/SoL etc)	Attendance (in %)	Marks	Eligible for 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	20181EEF0003	HEMANTH KUMAR M L	SoE	86.67	69	Yes	
16	20181EEF0016	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	
36	20191EEE0013	KOTHAKOTA JAI RAMAKRISHNA	SoE	63.33	20	NO	Not Eligible for Certificate
37	20191EEE0033	ROSHAN S	SoE	50.00	25	NO	Not Eligible for Certificate
38	20191EEE0052	YASHWANTH N	SoE	66.67	28	NO	Not Eligible for Certificate





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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 Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogalurbanke, Yalahanka, Bengaluru - 56





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

Course Code:	EEEV008
Course Name:	Hybrid Energy Storage System
Area of Specialization:	Power and Energy System
Course Description:	<p>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</p>
Course Outcome:	<p>On successful completion of the course the students shall be able to:</p> <ol style="list-style-type: none">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:	<p>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]</p> <p>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]</p> <p>Module No 3: Smaller energy storage systems are also discussed for benchmarking and comparisons. [8- Hours]</p> <p>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]</p>
Instructor In-charge:	Mr. Nageswara Rao A





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Department of Electrical & Electronics Engineering

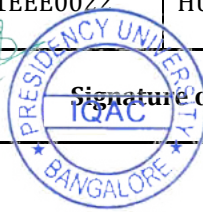
AY 2019-20 (Odd Sem)

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	20171EEE0009	ANUSHA DESHPANDE S	30	23	76.67
8	20171EEE0046	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	20171EEE0002	ABHISHEK B N	30	15	50.00
14	20171EEE0013	BISHWAKARMA KUMAR	30	20	66.67
15	20191EEE0004	ARUN S	30	19	63.33
16	20191EEE0018	MOHAMMED NOORUDDIN ASRAR	30	15	50
17	20191EEE0024	NAVYA SHREE M	30	20	66.67
18	20191EEE0038	SANJAY P	30	20	66.67
19	20191EEE0042	SHARANYA P C	30	19	63.33
20	20171EEE0022	HUMAIRA TARANNUM	30	15	50
Signature of Course Instructor					



School of Engineering
Department of Electrical & Electronics Engineering



Value Added Course Marksheet

Course	EEEV008	Academic Year :	2019-20
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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Code :							
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	2017IEEE0009	ANUSHA DESHPANDE S	SoE	13.33	95	Yes	Eligible for Certificate
8	2017IEEE0046	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 Certificate
13	2017IEEE0002	ABHISHEK B N	SoE	86.67	83	Yes	Eligible for Certificate
14	2017IEEE0013	BISHWAKARMA KUMAR	SoE	73.33	45	No	Not Eligible for Certificate
15	2019IEEE0004	ARUN S	SoE	63.33	39	No	Not Eligible for



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							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

Instructor:Mr.Nageswa Rao A

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
Kogalur, Yelahanka, Bengaluru -64





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

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

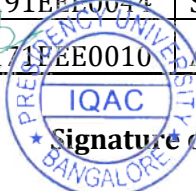
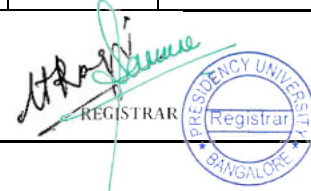


**School of Engineering
Department of Electrical & Electronics Engineering
AY 2019-20 (Odd Sem)**

**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	2016EEE009	RAJA R	30	22	73.33
2	2016EEE017	MOHAMMED TAUSIF T L	30	27	90.00
3	2016EEE024	MADANKUMAR S	30	24	80.00
4	2016EEE035	JERLIN JOY	30	26	86.67
5	20171EEE0005	AISHWARYA S	30	27	90.00
6	20171EEE0017	EPHNOTH M	30	25	83.33
8	20171EEE0027	KUSUMA A	30	22	73.33
9	20171EEE0037	MOHAMMED SALEHA RAFI	30	25	83.33
10	20171EEE0038	MS SANJAY	30	23	76.67
11	20171EEE0051	RAKESH G	30	24	80.00
12	20171EEE0064	SONAM PAL A	30	27	90.00
13	20171EEE0069	SURAJ J R	30	27	90.00
14	20171EEE0076	YUKESH M	30	16	53.33
15	20191EEE0005	ASFIYA AAZIM	30	12	40.00
16	20191EEE0025	P ABHINAV	30	12	40.00
17	20191EEE0044	SHWETHA N	30	13	43.33
18	20171EEE0010	ARJUN SINGH KUSHWAH	30	12	40.00
 <p align="center">Signature of Course Instructor</p>			 <p align="center">REGISTRAR</p>		

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

Course Code :	EEEV009		Academic Year :			2019-20	
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 (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	2016EEE009	RAJA R	SoE	73.33	87	Yes	
2	2016EEE017	MOHAMMED TAUSIF T L	SoE	90.00	92	Yes	
3	2016EEE024	MADANKUMAR S	SoE	80.00	78	Yes	
4	2016EEE035	JERLIN JOY	SoE	86.67	85	Yes	
5	20171EEE0005	AISHWARYA S	SoE	90.00	96	Yes	
6	20171EEE0017	EPHNOTH M	SoE	83.33	86	Yes	
7	20171EEE0027	KUSUMA A	SoE	73.33	87	Yes	
8	20171EEE0037	MOHAMMED SALEHA RAFI	SoE	83.33	98	Yes	
9	20171EEE0038	MS SANJAY	SoE	76.67	85	Yes	
10	20171EEE0051	RAKESH G	SoE	80.00	67	Yes	
11	20171EEE0064	SONAM PAL A	SoE	90.00	87	Yes	
12	20171EEE0069	SURAJ J R	SoE	90.00	94	Yes	
13	20171EEE0076	YUKESH M	SoE	53.33	AB	No	Shortage of attendance & Absent in Test
14	20171EEE0081	SYED FARDEEN	SoE	80.00	95	Yes	
15	20191EEE0005	ASFIYA AAZIM	SoE	53.33	20	No	Not Eligible for Certificate



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16	20191EEE0025	P ABHINAV	SoE	50.33	15	No	Not Eligible for Certificate
17	20191EEE0044	SHWETHA N	SoE	45.33	25	No	Not Eligible for Certificate
18	20171EEE0010	ARJUN SINGH KUSHWAH	SoE	40.33	30	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
Kaganahalli, Yalahanka, Bengaluru - 56





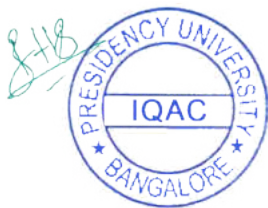
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School of Engineering
Department of Electrical & Electronics Engineering

Value Added Course offered during the Odd Semester AY 2019-20

Course Code:	EEEEV010
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 Describe the importance of Multilevel converters in Power Electronics 02 Discuss the generation of PWMs. 03 Explain the types of pulse width modulation techniques 04 Analyse the performance of different PWMs.
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:	Dr. Snehabhabha T.V





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School of Engineering

Department of Electrical & Electronics Engineering

AY 2019-20 (Odd Sem)

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

Name of the Instructor: Dr. Snehaprabha T.V

Attendance Sheet

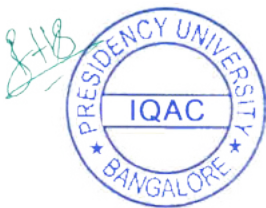
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	2016EEE002	SHIVASAGAR M	30	23	77
2	2016EEE010	GAGAN R B	30	21	70
3	2016EEE025	ANAS SHAIKH MAHMOOD	30	27	90
4	2017LEE002	SANJAY MALLIK	30	23	77
5	20171EEE0007	AKSHAY B	30	26	87
6	20171EEE0008	AKSHAY KUMAR J UPARKAR	30	21	70
7	20171EEE0020	HARPREET SINGH	30	26	87
8	20171EEE0032	MD AFFAN KHAN	30	20	67
9	20171EEE0040	NAVEEN KUMAR A	30	30	100
10	20171EEE0052	RAKSHITH T	30	21	70
11	20171EEE0066	SOPHIE SALINS	30	28	93
12	20171EEE0070	SYED MUIZZ AHMED	30	23	77
13	20171EEE0077	DUDEKULA BASHEER BABA	30	25	83
14	20171EEE0082	VARSHA A	30	25	83
15	20181LEE0003	HEMANTH KUMAR M L	30	26	87
16	20181LEE0016	SACHIN SANGAMESH DIVATAGI	30	23	77
17	20181EEE0001	ABHINAV SURESH	30	27	90
18	20181EEE0007	ARVINDGOWDA C N	30	27	90
19	20181EEE0014	DEEKSHITHA N	30	24	80
20	20181EEE0019	HANUMANTH KUMAR A	30	24	80
21	20181EEE0025	K SHRAVAN KUMAR	30	25	83
22	20181EEE0034	MOHAMMED NASIR	30	24	80
23	20181EEE0038	PALLAVI R	30	27	90
24	20191LEE0001	NIHARIKA H	30	28	93
25	20191LEE0003	LASAVAKUMAR S HIREHAL	30	24	80
26	20191LEE0006	DHEERAJ C	30	26	87



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27	20181EEE0039	PANDLA GURU SAI GOUD	30	28	93
28	20181EEE0048	RITHIK R K	30	27	90
29	20181EEE0053	SAMI UL ARFAATH	30	27	90
30	20181EEE0059	SONU B M	30	24	80
31	20181EEE0064	SURABHI M Y	30	26	87
32	20181EEE0070	WASEELKHAN WASEELKHAN	30	26	87
33	20181EEE0074	POOJA B S PATEL	30	26	87
34	20191LEE0008	PANCHENDRA H D	30	26	87
35	20191LEE0012	ARJUN CHHETRY	30	22	73
36	20191EEE0014	KRUTHIKA R	30	16	55
37	20191EEE0034	S R METHESWAR	30	14	48
38	20191EEE0053	RAHUL RAMESH PAMMAR	30	14	48
39	20191EEE0060	NAVEEN NELSON W	30	21	70
Signature of Course Instructor					





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

Course Code :	EEEEV010		Academic Year :			2019-20	
Course Name :	Pulse Width Modulation for Multilevel Converters		Semester :			Odd Semester	
			Instructor-in-Charge Name:			Dr. Snehaprabha T.V	
			Instructor-in-Charge Employee ID :			PUNIV00488	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	2016EEE002	SHIVASAGAR M	SoE	77	69	Y	
2	2016EEE010	GAGAN R B	SoE	70	63	Y	
3	2016EEE025	ANAS SHAIKH MAHMOOD	SoE	90	81	Y	
4	2017LEE002	SANJAY MALLIK	SoE	77	69	Y	
5	20171EEE0007	AKSHAY B	SoE	87	78	Y	
6	20171EEE0008	AKSHAY KUMAR J UPARKAR	SoE	70	63	N	Not Eligible for certificate
7	20171EEE0020	HARPREET SINGH	SoE	87	78	Y	
8	20171EEE0032	MD AFFAN KHAN	SoE	67	60	Y	
9	20171EEE0040	NAVEEN KUMAR A	SoE	100	90	Y	
10	20171EEE0052	RAKSHITH T	SoE	70	63	N	Not Eligible for certificate
11	20171EEE0066	SOPHIE SALINS	SoE	93	84	Y	
12	20171EEE0070	SYED MUIZZ AHMED	SoE	77	69	Y	
13	20171EEE0077	DUDEKULA BASHEER BABA	SoE	83	75	Y	
14	20171EEE0082	VARSHA A	SoE	83	75	Y	
15	20181LEE0003	HEMANTH KUMAR M L	SoE	87	78	Y	
16	20181LEE0016	SACHIN SANGAMESH DIVATAGI	SoE	77	69	Y	
17	20181EEE0001	ABHINAV SURESH	SoE	90	81	Y	
18	20181EEE0007	ARVINDGOWDA C N	SoE	90	81	Y	


 REGISTRAR




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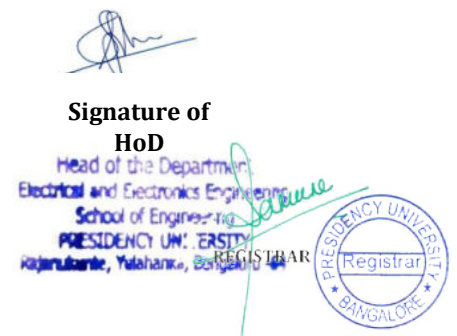
19	20181EEE0014	DEEKSHITHA N	SoE	80	72	Y	
20	20181EEE0019	HANUMANTH KUMAR A	SoE	80	72	Y	
21	20181EEE0025	K SHRAVAN KUMAR	SoE	83	75	Y	
22	20181EEE0034	MOHAMMED NASIR	SoE	80	72	Y	
23	20181EEE0038	PALLAVI R	SoE	90	81	Y	
24	20191LEE0001	NIHARIKA H	SoE	93	84	Y	
25	20191LEE0003	BASAVAKUMAR S HIREHAL	SoE	80	72	Y	
26	20191LEE0006	DHEERAJ C	SoE	87	78	Y	
27	20181EEE0039	PANDLA GURU SAI GOUD	SoE	93	84	Y	
28	20181EEE0048	RITHIK R K	SoE	90	81	Y	
29	20181EEE0053	SAMI UL ARFAATH	SoE	90	81	Y	
30	20181EEE0059	SONU B M	SoE	80	72	Y	
31	20181EEE0064	SURABHI M Y	SoE	87	78	Y	
32	20181EEE0070	WASEELKHAN WASEELKHAN	SoE	87	78	Y	
33	20181EEE0074	POOJA B S PATEL	SoE	87	78	Y	
34	20191LEE0008	PANCHENDRA H D	SoE	87	78	Y	
35	20191LEE0012	ARJUN CHHETRY	SoE	73	66	N	Not Eligible for certificatae
36	20191EEE0014	KRUTHIKA R	SoE	70	63	N	Not Eligible for certificatae
37	20191EEE0034	S R METHESWAR	SoE	73	66	N	Not Eligible for certificatae
38	20191EEE0053	RAHUL RAMESH PAMMAR	SoE	70	63	N	Not Eligible for certificatae
39	20191EEE0060	NAVEEN NELSON W	SoE	70	63	N	Not Eligible for certificatae

Name of Course Instructor : Dr. Snehaprabha T.V

Employee ID of Course Instructor: PUNIV00488



Signature of Instructor-in-charge





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

PU-SoE-EEE 2019-20

Ref. No. PU/ SoE/ EEE /2019-20/VAC/CIR/02

11-05-2020

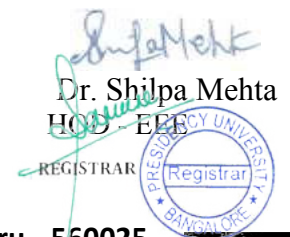
CIRCULAR

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

This is to inform all the students of the 4th, 6th, and 8th semesters of B. Tech (EEE), the following value-added courses will be offered by the department during the AY 2019-20 (Winter 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. V Joshi Manohar
3.	EEEV003	MATLAB Programming and Simulink for Power Electronic converters	Mr.K.Sreekanth Reddy
4.	EEEV005	AutoCAD for Electrical Engineers	Mr. Ravi V Angadi
5.	EEEV006	Solar Cells - Past, Present and Future	Ms.Ramya K
6.	EEEV008	Hybrid Energy Storage System	Mr. Nageswara Rao A
7.	EEEV009	Fundamentals of Electric and Hybrid Electric Vehicles	Ms. Ragasudha C P
8.	EEEV010	Pulse Width Modulation For Multilevel Converter	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

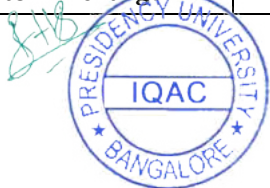
Campus: Presidency University, Itgalpura, Rajanukunte, Bengaluru - 560064

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 Even Semester 2019-2020

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 2019-20 (Even 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
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
23	20191EEE0015	MANDADI KARTHIKEYAN REDDY	30	11	36
24	20191EEE0035	SAGAR B	30	8	26
25	20191EEE0057	ZAID AHMED ZAUED HAMADAH	30	14	46
Signature of Course Instructor					



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

Course Code :	EEEEV001		Academic Year :			2019-20	
Course Name :	Introduction to Multilevel Inverters		Semester :			Even 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	2016EEEE006	TALANK S	SoE	73	67	NO	Not Eligible for Certificate
2	2016EEEE014	ASHISH PANDIT R	SoE	67	61	NO	Not Eligible for Certificate
3	2016EEEE021	RANGASWAMY H	SoE	87	79	Yes	
4	2016EEEE031	MERIGA MAMATHA	SoE	73	67	NO	Not Eligible for Certificate
5	20171EEEE0003	ADIL JEBRAN	SoE	83	76	Yes	
6	20171EEEE0014	DEVARAKONDA HARSHAVARDHAN	SoE	67	61	NO	Not Eligible for Certificate
7	20171EEEE0024	KEERTHANA D	SoE	83	76	Yes	
8	20171EEEE0035	MELVIN MOSES YOUNG	SoE	63	58	NO	Not Eligible for Certificate
9	20171EEEE0042	NEERUGATTI SUNIL	SoE	97	88	Yes	
10	20171EEEE0049	PUNEETH KUMAR C	SoE	67	61	NO	Not Eligible for Certificate
11	20171EEEE0057	S SHALINI	SoE	90	82	Yes	
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	SoE	73	67	NO	Not Eligible for Certificate
13	20181LEE0018	KAVYA M	SoE	80	73	Yes	
14	20181EEE0004	AMULYA A PUROHIT	SoE	80	73	Yes	
15	20181EEE0010	BATHALA PRASHANTH	SoE	83	76	Y	
16	20181EEE0018	G SAIKUMAR	SoE	73	67	NO	Not Eligible for Certificate
17	20181EEE0021	JAHNAVI J P	SoE	87	79	Yes	
18	20181EEE0028	KESHAV GANESH	SoE	87	79	Yes	
19	20181EEE0037	PALLA REDDAIAH	SoE	77	70	Yes	
20	20181EEE0044	PREETHAM HIMAKAR	SoE	77	70	Yes	



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21	20181EEE0055	SATISH KUMAR	SoE	80	73	Yes	
22	20181EEE0067	TEJAS GOWDA M	SoE	77	70	Yes	
23	20191EEE0015	MANDADI KARTHIKEYAN REDDY	SoE	36	67	NO	Not Eligible for Certificate
24	20191EEE0035	SAGAR B	SoE	26	61	NO	Not Eligible for Certificate
25	20191EEE0057	ZAID AHMED ZAUED HAMADAH	SoE	46	67	NO	Not Eligible for Certificate

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
Kajurubakke, Yalahanka, Bengaluru - 56

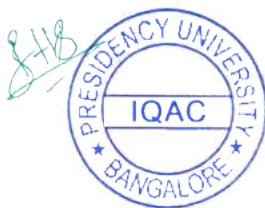




Department of Electrical & Electronics Engineering

Value Added Courses to be offered during the EVEN Semester Break 2019-2020

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: 1. List out the renewable energy sources 2. Describe the concept of green building 3. Explain the process of the bussiness model 4. Develop a project using real time data
Course Content:	Module No 1: Introduction to Green Building: Reviews of various renewable energy sources and the concept of green building, [8- Hours] Module No 2: Start Ups in oppotunities renewable energy sector and case study of solar plant start up . Take real world first steps towards launching a new business or corporate initiative [10 Hours] Module No 3: Identification of any two problems with either renewable energy or green building products or services. - Plan for engaging with investors who might finance a new business[12 Hours]
Instructor In-charge:	Dr Joshi Manohar V



Presidency University, Bengaluru

Department of Electrical and Electronics Engineering

School of Engineering

VAC DETAILS



Total number of hours:30

AY 2019-20 Even Semester

Value added Course(VAC) Name and Code:VAC Student list for RENEWABLE ENERGY AND GREEN BUILDING ENTREPRENEURSHIP & EEEV002

Name of the Instructor:Dr. V Joshi Manohar

S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20171EEE0027	KUSUMA A	30	22	73.33
2	20171EEE0037	MOHAMMED SALEHA RAFI	30	27	90.00
3	20171EEE0038	MS SANJAY	30	23	76.67
4	20171EEE0051	RAKESH G	30	26	86.67
5	20171EEE0064	SONAM PAL A	30	27	90.00
6	20171EEE0069	SURAJ J R	30	25	83.33
7	20171EEE0076	YUKESH M	30	21	70.00
8	20181EEE0055	SATISH KUMAR	30	25	83.33
9	20181EEE0056	SHARON PRANATHI M	30	22	73.33
10	20181EEE0057	SHREE LAKSHMI G D	30	24	80.00
11	20181EEE0059	SONU B M	30	27	90.00
12	20181EEE0060	SOUMYA T	30	27	90.00
13	20181EEE0061	SREEVATSA P M	30	24	80.00
14	20181EEE0063	SUMITH J JADHAV	30	24	80.00
15	20181EEE0064	SURABHI M Y	30	26	86.67
16	20181EEE0069	VISHNU T S	30	22	73.33
17	20181EEE0070	WASEELKHAN WASEELKHAN	30	19	63.33
18	20181EEE0071	YAMAVARAM MADHU SUDHAN	30	24	80.00
19	20181EEE0072	YASSER AHAMED KHAISAR	30	23	76.67
20	20181EEE0073	DILIP YADAV N	30	25	83.33
21	20191EEE0006	ASHISH SINGH BHUMIJ	30	19	63.33
22	20191EEE0026	PERAM BHARGAV REDDY	30	15	50.33
23	20191EEE0045	SIVA PRASAD L	30	19	63.33
24	20191LEE0002	SHIVACHANDAN D L	30	19	63.33
25	20171EEE0047	PRIYA S	30	15	50.33


signature of Course Instructor





Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :		EEEE002		Academic Year :			2019-20	
Course Name :		RENEWABLE ENERGY AND GREEN BUILDING ENTREPRENEURSHIP		Semester :			Even Semester	
				Instructor-in-Charge Name :			Dr V Joshi Manohar	
				Instructor-in-Charge Employee ID			PUNIV01153	
S. No	UID No	Roll No	Name	School SoE/SoL (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1		20171EEEE0027	KUSUMA A	SoE	73.33	65	Yes	
2		20171EEEE0037	MOHAMMED SALEHA RAFI	SoE	90.00	90	Yes	
3		20171EEEE0038	MS SANJAY	SoE	82.14	85	Yes	
4		20171EEEE0051	RAKESH G	SoE	86.67	65	Yes	
5		20171EEEE0064	SONAM PAL A	SoE	90.00	74	Yes	
6		20171EEEE0069	SURAJ J R	SoE	83.33	56	Yes	
7		20171EEEE0076	YUKESH M	SoE	70.00	89	Yes	
8		20181EEEE0055	SATISH KUMAR	SoE	83.33	76	Yes	
9		20181EEEE0056	SHARON PRANATHI M	SoE	73.33	54	Yes	
10		20181EEEE0057	SHREE LAKSHMI G D	SoE	80.00	43	Yes	
11		20181EEEE0059	SONU B M	SoE	90.00	57	Yes	
12		20181EEEE0060	SOUMYA T	SoE	90.00	60	Yes	
13		20181EEEE0061	SREEVATSA P M	SoE	80.00	78	Yes	
14		20181EEEE0063	SUMITH J JADHAV	SoE	80.00	76	Yes	
15		20181EEEE0064	SURABHI M Y	SoE	86.67	80	Yes	
16		20181EEEE0069	VISHNU T S	SoE	73.33	66	Yes	
17		20181EEEE0070	WASEELKHAN WASEELKHAN	SoE	63.33	AB	NO	
18		20181EEEE0071	YAMAVARAM MADHU SUDHAN	SoE	82.76	78	Yes	
19		20181EEEE0072	YASSER AHAMED KHAISAR	SoE	76.67	87	Yes	
20		20181EEEE0073	DILIP YADAV N	SoE	86.21	78	Yes	
21		20191EEEE0006	ASHISH SINGH BHUMIJ	SoE	63.33	AB	NO	
22		20191EEEE0026	PERAM BHARGAV REDDY	SoE	50.33	10	NO	
23		20191EEEE0045	SIVA PRASAD L	SoE	63.33	20	NO	
24		20191LEE0002	SHIVACHANDAN D L	SoE	63.33	23	NO	
25		20171EEEE0047	PRIYA S	SoE	50.33	25	NO	

Name of Course Instructor 1:

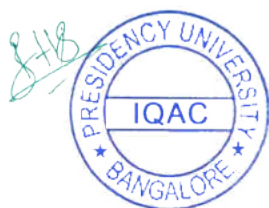
Dr. V Joshi Manohar

Employee ID of Course Instructor 1:

PUNIV01153

Signature of Instructor-in-Charge

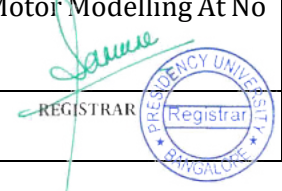
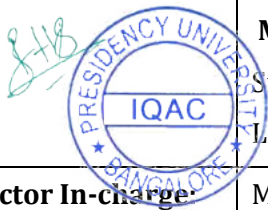
Head of the Department,
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Koramangala, Yalahanka, Bengaluru - 44





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

Course Code:	EEEV003
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 2019-20 (Even Sem)

Value added Course(VAC) Name and Code: MATLAB Programming and Simulink for Power
Electronic converters & EEV003

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	2016EEE003	ISMAIL ZAIN S A	30	25	83.33
2	2016EEE011	SHALIZA KAUSHAL	30	27	90.00
3	2016EEE018	DHINU S	30	25	83.33
4	2016EEE026	CHAGI ANIRUDH	30	27	90.00
5	2016EEE036	NITISH K A	30	28	93.33
6	2017LEE003	SUNNY KUMAR	30	16	53.33
7	20171EEE0009	ANUSHA DESHPANDE S	30	26	86.67
8	20171EEE0046	PATAN ISMAIL ALLI KHAN	30	25	83.33
9	2016EEE005	KANTESH BASVANTAPPA OLEKAR	30	24	80.00
10	2016EEE013	BHARATH V	30	17	56.67
11	2016EEE020	KEERTHI P	30	28	93.33
12	2016EEE028	MAHANTESH M	30	28	93.33
13	20171EEE0002	ABHISHEK B N	30	24	80.00
14	20171EEE0013	BISHWAKARMA KUMAR	30	24	80.00
15	20191EEE0012	KOMALA M E	30	17	56.67
16	20191EEE0016	MOHAMMAD JAMEEL	30	17	56.67
17	20191EEE0032	R S SHARUKH	30	16	53.33
18	20191EEE0036	SAMBHRAM P TAILANG	30	17	56.67
19	20191EEE0051	YASHASH N	30	16	53.33
20	20191EEE0058	TOUFEEQ	30	17	56.67
Signature of Course Instructor			REGISTRAR K. Sreekanth Reddy		



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

Course Code :	EEEEV003		Academic Year :			2019-20	
Course Name :	MATLAB Programming and Simulink for Power Electronic converters		Semester :			Even 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	2016EEEE003	ISMAIL ZAIN S A	SoE	83.33	66	Yes	
2	2016EEEE011	SHALIZA KAUSHAL	SoE	90	63	Yes	
3	2016EEEE018	DHINU S	SoE	83.33	57	Yes	
4	2016EEEE026	CHAGI ANIRUDH	SoE	90	59	Yes	
5	2016EEEE036	NITISH K A	SoE	93.33	52	Yes	
6	2017LEE003	SUNNY KUMAR	SoE	53.33	20	No	Not Eligible for Certificate
7	20171EEE0009	ANUSHA DESHPANDE S	SoE	86.67	62	Yes	
8	20171EEE0046	PATAN ISMAIL ALLI KHAN	SoE	83.33	66	Yes	
9	2016EEEE005	KANTESH BASVANTAPPA OLEKAR	SoE	80	67	Yes	
10	2016EEEE013	BHARATH V	SoE	56.67	24	No	Not Eligible for Certificate
11	2016EEEE020	KEERTHI P	SoE	93.33	60	Yes	
12	2016EEEE028	MAHANTESH M	SoE	93.33	75	Yes	
13	20171EEE0002	ABHISHEK B N	SoE	80	60	Yes	
14	20171EEE0013	BISHWAKARMA KUMAR	SoE	80	52	Yes	
15	20191EEE0012	KOMALA M E	SoE	56.67	27	No	Not Eligible for Certificate
16	20191EEE0016	MOHAMMAD JAMEEL	SoE	53.33	32	No	Not Eligible for Certificate



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17	20191EEE0032	R S SHARUKH	SoE	56.67	21	No	Not Eligible for Certificate
18	20191EEE0036	SAMBHRAM P TAILANG	SoE	53.33	AB	No	Not Eligible for Certificate
19	20191EEE0051	YASHASH N	SoE	56.67	35	No	Not Eligible for Certificate
20	20191EEE0058	TOUFEEQ	SoE	53.33	33	No	Not Eligible for Certificate

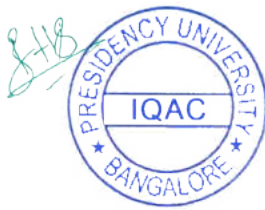
Name of Course Mr. K Sreekanth Reddy
Instructor :
Employee ID of PUNIV00489
Course Instructor:

K. Sreekanth Reddy

**Signature of
Instructor-in-charge**

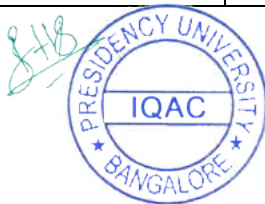
Sujeet K

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



School of Engineering
Department of Electrical & Electronics Engineering
Value Added Course offered during the Even Semester 2019-20

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



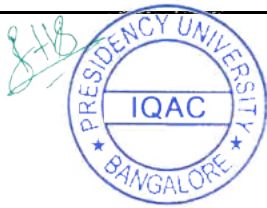


School of Engineering
Department of Electrical & Electronics Engineering
AY 2019-20 (Even Sem)

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	2016EEE001	MOHAN KUMAR M	30	26	86.67
2	2016EEE002	SHIVASAGAR M	30	23	76.67
3	2016EEE004	PREETI KUMARI R	30	25	83.33
4	2016EEE005	KANTESH BASVANTAPPA OLEKAR	30	24	80.00
5	2016EEE006	TALANK S	30	29	96.67
6	2016EEE009	RAJA R	30	25	83.33
7	2016EEE011	SHALIZA KAUSHAL	30	24	80.00
8	2016EEE012	SHAJINA BEGUM	30	24	80.00
9	2016EEE017	MOHAMMED TAUSIF T L	30	18	60.00
10	2016EEE020	KEERTHI P	30	23	76.67
11	2016EEE021	RANGASWAMY H	30	26	86.67
12	2016EEE024	MADANKUMAR S	30	25	83.33
13	2016EEE027	MAHESH E	30	20	66.67
14	2016EEE028	MAHANTESH M	30	25	83.33
15	2016EEE031	MERIGA MAMATHA	30	24	80.00
16	2016EEE036	NITISH K A	30	16	53.33
17	2017LEE002	SANJAY MALLIK	30	23	76.67
18	2017LEE003	SUNNY KUMAR	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 :			2019-20	
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	2016EEE001	MOHAN KUMAR M	SoE	86.67	50	Yes	
2	2016EEE002	SHIVASAGAR M	SoE	76.67	77.5	Yes	
3	2016EEE004	PREETI KUMARI R	SoE	83.33	55	Yes	
4	2016EEE005	KANTESH BASVANTAPPA OLEKAR	SoE	80.00	65	Yes	
5	2016EEE006	TALANK S	SoE	96.67	75	Yes	
6	2016EEE009	RAJA R	SoE	83.33	82.5	Yes	
7	2016EEE011	SHALIZA KAUSHAL	SoE	80.00	77.5	Yes	
8	2016EEE012	SHAJINA BEGUM	SoE	80.00	52.5	Yes	
9	2016EEE017	MOHAMMED TAUSIF TL	SoE	60.00	Ab	No	Not Eligible for Certificate
10	2016EEE020	KEERTHI P	SoE	76.67	60	Yes	
11	2016EEE021	RANGASWAMY H	SoE	86.67	58	Yes	
12	2016EEE024	MADANKUMAR S	SoE	83.33	90	Yes	
13	2016EEE027	MAHESH E	SoE	66.67	Ab	No	Not Eligible for Certificate
14	2016EEE028	MAHANTESH M	SoE	83.33	72	Yes	
15	2016EEE031	MERIGA MAMATHA	SoE	80.00	60	Yes	
16	2016EEE036	NITISH KA	SoE	53.33	Ab	No	Not Eligible for Certificate



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17	2017LEE002	SANJAY MALLIK	SoE	76.67	42.5	Yes	
18	2017LEE003	SUNNY KUMAR	SoE	80.00	69	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 Even Semester 2019-2020

Course Code:	EEEV006
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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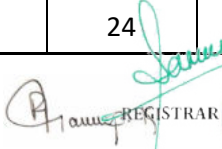
School of Engineering Department of Electrical & Electronics Engineering

AY 2019-20 (Even 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	2016EEE006	TALANK S	30	22	73.33
2	2016EEE014	ASHISH PANDIT R	30	27	90.00
3	2016EEE021	RANGASWAMY H	30	16	53.33
4	2016EEE031	MERIGA MAMATHA	30	26	86.67
5	20171EEE0003	ADIL JEBRAN	30	27	90.00
6	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	30	25	83.33
7	20171EEE0024	KEERTHANA D	30	22	73.33
8	20171EEE0035	MELVIN MOSES YOUNG	30	25	83.33
9	20171EEE0042	NEERUGATTI SUNIL	30	23	76.67
10	20171EEE0049	PUNEETH KUMAR C	30	24	80.00
11	20171EEE0057	S SHALINI	30	27	90.00
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	30	27	90.00
13	20181LEE0018	KAVYA M	30	24	80.00
14	20181EEE0004	AMULYA A PUROHIT	30	24	80.00
15	20181EEE0010	BATHALA PRASHANTH	30	26	86.67
16	20181EEE0016	G SAIKUMAR	30	22	73.33
17	20181EEE0021	JAHNAVI J P	30	24	80.00
18	20181EEE0028	KESHAV GANESH	30	24	80.00
19	20181EEE0037	PALLA REDDAIAH	30	23	76.67
20	20181EEE0044	PREETHAM HIMAKAR	30	25	83.33
21	20181EEE0055	SATISH KUMAR	30	24	80.00
22	20181EEE0067	TEJAS GOWDA M	30	24	80.00
Signature of Course Instructor			 REGISTRAR		

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

Course Code :	EEEV006		Academic Year :			2019-20	
Course Name :	Solar Cells - Past, Present and Future		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	2016EEE006	TALANK S	SoE	73.33	65	Yes	
2	2016EEE014	ASHISH PANDIT R	SoE	90.00	75	Yes	
3	2016EEE021	RANGASWAMY H	SoE	53.33	Ab	NO	Not Eligible for Certificate
4	2016EEE031	MERIGA MAMATHA	SoE	86.67	77.5	Yes	
5	20171EEE0003	ADIL JEBRAN	SoE	90.00	52.5	Yes	
6	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	SoE	83.33	57.5	Yes	
7	20171EEE0024	KEERTHANA D	SoE	73.33	60	Yes	
8	20171EEE0035	MELVIN MOSES YOUNG	SoE	83.33	58	Yes	
9	20171EEE0042	NEERUGATTI SUNIL	SoE	76.67	90	Yes	
10	20171EEE0049	PUNEETH KUMAR C	SoE	50.00	Ab	NO	Not Eligible for Certificate
11	20171EEE0057	S SHALINI	SoE	90.00	72	Yes	
12	20181LEE0010	CHENTHOTI BHANUPRAKASH	SoE	90.00	60	Yes	
13	20181LEE0018	KAVYA M	SoE	80.00	67	Yes	
14	20181EEE0004	AMULYA A PUROHIT	SoE	80.00	42.5	Yes	
15	20181EEE0010	BATHALA PRASHANTH	SoE	86.67	69	Yes	
16	20181EEE0016	G SAIKUMAR	SoE	73.33	58	Yes	



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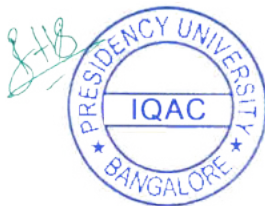
17	20181EEE0021	JAHNAVI J P	SoE	80.00	78	Yes	
18	20181EEE0028	KESHAV GANESH	SoE	62.758 62069	Ab	NO	Not Eligible for Certificate
19	20181EEE0037	PALLA REDDAIAH	SoE	66.666 66667	Ab	NO	Not Eligible for Certificate
20	20181EEE0044	PREETHAM HIMAKAR	SoE	86.21	72.5	Yes	
21	20181EEE0055	SATISH KUMAR	SoE	80.00	79	Yes	
22	20181EEE0067	TEJAS GOWDA M	SoE	80.00	50	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
Kogalur, Yalahank, Bengaluru -64





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

Course Code:	EEEV008
Course Name:	Hybrid Energy Storage System
Area of Specialization:	Power and Energy System
Course Description:	<p>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</p>
Course Outcome:	<p>On successful completion of the course the students shall be able to:</p> <ol style="list-style-type: none">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:	<p>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]</p> <p>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]</p> <p>Module No 3: Smaller energy storage systems are also discussed for benchmarking and comparisons. [8- Hours]</p> <p>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]</p>
Instructor In-charge:	Mr. Nageswara Rao A



School of Engineering




Department of Electrical & Electronics Engineering

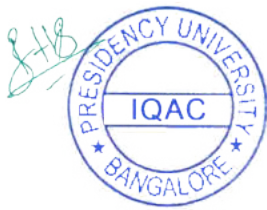
AY 2019-20 (Even Sem)

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	20171EEE0023	JYOTHI T	30	26	80.00
2	20171EEE0034	MD RASHIDUL ISLAM KHAN	30	25	80.00
3	20171EEE0041	NAVEEN P	30	26	86.67
4	20171EEE0048	HATEM ATA TAHER ABDULAZIZ ATA	30	17	73.33
5	20171EEE0056	S HARIVIGNESH	30	24	80.00
6	20181LEE0007	GANESH KUMAR SINGH	30	13	43.33
7	20181LEE0017	RAVANA K N	30	20	76.67
8	20181EEE0002	ABHISHEK R BHARADWAJ	29	25	86.21
9	20181EEE0008	B H LAVANYA	30	24	80.00
10	20181EEE0015	FARHAN MUKHTIAR ABDUL Late	30	24	80.00
11	20181EEE0020	HARIKRISHN V	29	24	75.86
12	20191EEE0010	EASHWAR V	30	13	43.33
13	20191EEE0030	PRATHVIRAJ	30	20	66.67
14	20191EEE0049	VARSHA B N	30	17	56.67
15	20181LEE0007	GANESH KUMAR SINGH	30	13	43.33
Signature of Course Instructor					



School of Engineering
Department of Electrical & Electronics Engineering

Value Added Course Marksheet

Course Code :	EEEV008		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	20171EEE0023	JYOTHI T	SoE	86.67	82	Yes	Eligible for Certificate
2	20171EEE0034	MD RASHIDUL ISLAM KHAN	SoE	83.33	84	Yes	Eligible for Certificate
3	20171EEE0041	NAVEEN P	SoE	86.67	78	Yes	Eligible for Certificate
4	20171EEE0048	HATEM ATA TAHER ABDULAZIZ ATA	SoE	56.67	37	No	Not Eligible for Certificate
5	20171EEE0056	S HARIVIGNESH	SoE	80.00	95	Yes	Eligible for Certificate
6	20181LEE0007	GANESH KUMAR SINGH	SoE	43.33	58	No	Not Eligible for Certificate
7	20181LEE0017	RAVANA K N	SoE	66.67	49	No	Not Eligible for Certificate
8	20181EEE0002	ABHISHEK R BHARADWAJ	SoE	86.21	92	Yes	Eligible for Certificate
9	20181EEE0008	B H LAVANYA	SoE	80.00	88	Yes	Eligible for Certificate
10	20181EEE0005	FARHAN MUKHTIAR ABDUL Late	SoE	80.00	85	Yes	Eligible for Certificate
11	20181EEE0000	HARIKRISHN V	SoE	82.76	82	Yes	Eligible for Certificate
12	20191EEE0010	EASHWAR V	SoE	93.33	20	No	Not Eligible for Certificate
13	20191EEE0030	PRATHVIRAJ	SoE	86.67	34	No	Not Eligible for Certificate



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							Certificate
14	20191EEE004 9	VARSHA B N	SoE	73.33	26	No	Not Eligible for Certificate
15	20181LEE000 7	GANESH KUMAR SINGH	SoE	63.33	30	No	Not Eligible for Certificate

Name of Course

Instructor: Mr. Nageswara Rao A

Employee ID of Course

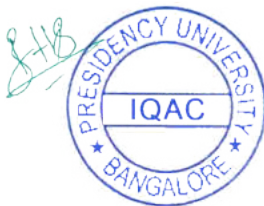
PUNIV01282

Instructor:

Signature of Instructor-in-charge

Signature of HoD

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





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

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 2019-20 (Even 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

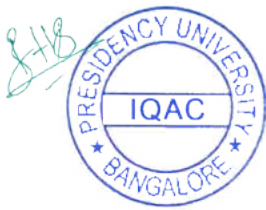
S.No.	STUDENT ID NO	STUDENT NAME	Total classes conducted	Total classes attended	Percentage attended
1	20171EEE9003	SYEDA NEHA	30	26	86.67
2	20181LEE0015	AKSHAY KUMAR K B	30	23	76.67
3	20181LEE0020	MD ZAFER EQBAL	30	18	60.00
4	20181EEE0006	ARSHAD SALEEM	30	24	80.00
5	20181EEE0013	CHARAN KUMAR N	30	29	96.67
6	20181EEE0018	GATE MOHAMMAD SHADAB	30	25	83.33
7	20181EEE0023	JAYASHREE V	30	24	80.00
8	20181EEE0032	MANISH KUMAR	30	24	80.00
9	20181EEE9002	HEMANTH H L	30	25	83.33
10	20191LEE0005	KUSHAL S	30	23	76.67
11	20181EEE9008	BHARATH S	30	26	86.67
12	20181EEE0047	RAJATH KRISHNA R	30	26	86.67
13	20181EEE0052	SAICHARAN T A	30	23	76.67
14	20181EEE0057	SHREE LAKSHMI G D	30	25	83.33
15	20181EEE0063	SUMITH J JADHAV	30	24	80.00
16	20181LEE0069	VISHNU T S	30	24	80.00
17	20181EEE0073	DILIP YADAV N	30	16	53.33
18	20181EEE9006	KRUTHAN KRISHNA SWAMY	30	24	80.00
19	20191LEE0011	RAKESH C S	30	24	80.00
20	20191EEE0017	MOHAMMAD ZAID FAROOQ	30	18	60.00



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21	20191EEE0037	SANJAY B	30	16	53.33
22	20191EEE0059	SHABBEER AHMAD MUJAVAR	30	18	60.00
23	20171EEE0055	ROHITH PRAKASH	30	16	53.33
Signature of Course Instructor					



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

Course Code :	EEEEV009		Academic Year :			2019-20	
Course Name :	Fundamentals of Electric and Hybrid Electric Vehicles		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	20171EEE9003	SYEDA NEHA	SoE	86.67	76	Y	
2	20181LEE0015	AKSHAY KUMAR K B	SoE	76.67	85	Y	
3	20181LEE0020	MD ZAFER EQBAL	SoE	60.00	38	N	No Passing marks in Test
4	20181EEE0006	ARSHAD SALEEM	SoE	80.00	67	Y	
5	20181EEE0013	CHARAN KUMAR N	SoE	96.67	78	Y	
6	20181EEE0018	GATE MOHAMMAD SHADAB	SoE	83.33	76	Y	
7	20181EEE0023	JAYASHREE V	SoE	80.00	89	Y	
8	20181EEE0032	MANISH KUMAR	SoE	80.00	78	Y	
9	20181EEE9002	HEMANTH H L	SoE	83.33	86	Y	
10	20191LEE0005	KUSHAL S	SoE	76.67	76	Y	
11	20181EEE9008	BHARATH S	SoE	86.67	89	Y	
12	20181EEE0047	RAJATH KRISHNA R	SoE	86.67	89	Y	
13	20181EEEC052	SAICHARAN T A	SoE	76.67	90	Y	
14	20181EEE0057	SHREE LAKSHMI G D	SoE	83.33	98	Y	
15	20181EEE0063	SUMITH J JADHAV	SoE	80.00	67	Y	



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16	20181EEE0069	VISHNU T S	SoE	80.00	95	Y	
17	20181EEE0073	DILIP YADAV N	SoE	53.33	AB	N	Absent in Test, Less attendance
18	20181EEE9006	KRUTHAN KRISHNA SWAMY	SoE	80.00	89	Y	
19	20191LEE0011	RAKESH C S	SoE	80.00	85	Y	
20	20191EEE0017	MOHAMMAD Zaid FAROOQ	SoE	60.00	20	N	
21	20191EEE0037	SANJAY B	SoE	53.33	15	N	
22	20191EEE0059	SHABBEER AHMAD MUJAVAR	SoE	60.00	26	N	
23	20171EEE0055	ROHITH PRAKASH	SoE	60.00	27	N	

Name of Course

Instructor :

Employee ID of Course

Instructor:

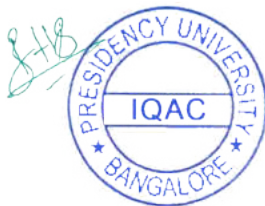
Ms. Ragasudha C P

PUNIV01324

Signature of Instructor-
in-charge

Signature of HoD

Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Kogalur, Yalahanki, Bengaluru -54





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School of Engineering
Department of Electrical & Electronics Engineering

Value Added Course offered during the Even Semester AY 2019-20

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 Describe the importance of Multilevel converters in Power Electronics 02 Discuss the generation of PWMs. 03 Explain the types of pulse width modulation techniques 04 Analyse the performance of different PWMs.
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:	Dr. Snehabraba T.V





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School of Engineering

Department of Electrical & Electronics Engineering

AY 2019-20 (Even Sem)

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

Name of the Instructor: Dr. Snehaprabha 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
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
23	2016EEE006	TALANK S	30	13	43
24	2016EEE014	ASHISH PANDIT R	30	12	41
25	2016EEE021	RANGASWAMY H	30	12	41
26	2016EEE031	MERIGA MAMATHA	30	12	41

REGISTRAR
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27	20171EEE0003	ADIL JEBRAN	30	13	43
28	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	30	11	41
29	20171EEE0024	KEERTHANA D	30	12	41
Signature of Course Instructor					





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

Value Added Course Marksheet

Course Code :	EEEEV010		Academic Year :			2019-20	
Course Name :	Pulse Width Modulation for Multilevel Converters		Semester :			Even Semester	
			Instructor-in-Charge Name:			Dr. Snehaprabha T.V	
			Instructor-in-Charge Employee ID :			PUNIV00488	
S. No	Roll No	Name	School SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	2016EEE006	TALANK S	SoE	73	67	N	Not Eligible for Certificate
2	2016EEE014	ASHISH PANDIT R	SoE	67	61	N	Not Eligible for Certificate
3	2016EEE021	RANGASWAMY H	SoE	87	79	Y	
4	2016EEE031	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	
16	20181EEE0016	G SAIKUMAR	SoE	73	67	N	Not Eligible for Certificate
17	20181EEE0021	JAHNAVI J P	SoE	87	79	Y	



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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	
23	2016EEE006	TALANK S	SoE	43	20	N	Not Eligible for Certificate
24	2016EEE014	ASHISH PANDIT R	SoE	41	30	N	Not Eligible for Certificate
25	2016EEE021	RANGASWAMY H	SoE	41	25	N	Not Eligible for Certificate
26	2016EEE031	MERIGA MAMATHA	SoE	41	31	N	Not Eligible for Certificate
27	20171EEE0003	ADIL JEBRAN	SoE	43	22	N	Not Eligible for Certificate
28	20171EEE0014	DEVARAKONDA HARSHAVARDHAN	SoE	41	15	N	Not Eligible for Certificate
29	20171EEE0024	KEERTHANA D	SoE	41	19	N	Not Eligible for Certificate

Name of Course Instructor : Dr. Snehaprabha T.V

Employee ID of Course Instructor: PUNIV00488

Signature of Instructor-in-charge

Signature of HoD

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

