Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2019-20/01 **Date: 17.06.2019**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Earthing and Grounding Practices" for the benefit of IV B.Tech (Semester-I) students. This could be scheduled from 21st June 2019 – 30th Sept 2019 with 30 hours duration. The interested students can enroll for the course by 20th July 2018. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mr.T. Parameshwar	Assistant Professor

HoD/EEE

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3. IV B.Tech Students

PRINCIPAL
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EARTHING AND GROUNDING PRACTICES

Course Outcomes:

After completing the course the students will

CO1: Understand the concepts of electrical grounding done in Power Systems.

CO2: Apply the concepts of grounding for substations, transformers and other quipment

CO3: Analyse the methods of grounding and earthing.

UNIT I: Electrical Substation Grounding

Types of Substation, Layout and Bus Bar schemes, Voltage level, Substation equipments Protection & Control , Substation earthing, tolerance limits of body currents, sil resitivity, earth resistance, tolerable and actual step and touch voltages, design of earthing grid, tower footing resistance, measurement of soil and earth resistivity

UNIT II: Power System Earthing

Ground versus isolated neutral, solidly and effectively grounded system , rsistenace and impedance grounding.

Resonant grounding, reactance grounding, voltage transformer grounding, zigzag transformer grounding

UNIT III: Grounding Practice

Grounding practice, effect of grounding on system, over voltages and protection, over voltage and over voltage phenomenon in isolated and grounded neutral system.

Textbook

1. Power System Analysis & Design by B.R. Gupta –S.Chand
2. Sub Station Design and Equipment – Gupta & Satnam (Dhanpat Rai & Sons)

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Earthing and Grounding Practices

List of Registered Students (2019-20)

S.No	Roll. No	Name of the student
1	16911A0201	ALAVALA SAI PRIYANKA
2	16911A0202	ANANTHA SREEJA
3	16911A0203	ANTHAMGARI MANISHA
4	16911A0204	APPAJI NAGENDER PATEL
5	16911A0205	B KRISHNA VAMSI
6	16911A0208	BOINI AVINASH KUMAR
7	16911A0209	BOLAVENA ANJALI
8	16911A0210	CHERUKU CHANDRA SHEKAR GOUD
9	16911A0254	BAMANDLA NIKHIL
10	16911A0256	BHUKYA HIMABINDU
11	16911A0257	BOLLEBOINA SRINATH YADAV
12	16911A0258	BOMMAKANTI ANJAIAH
13	16911A0259	CHAKALI SRISAILAM
14	16911A0218	KAKUMANU BHARATH KUMAR
15	16911A0219	KANDARI SAI PRASAD
16	16911A0220	KASIREDDY RAGHAVENDRA REDDY
17	16911A0274	MANATI MANISHA
18	16911A0275	MIR FARAZUDDIN HAMZA
19	16911A0277	MOTAM SUDARSHAN
20	16911A0278	NIMMAGADDA HARISH KUMAR
21	16911A0281	PEDDA BOMMA DIVYA SREE
22	16911A0203	ANTHAMGARI MANISHA
23	16911A0204	APPAJI NAGENDER PATEL
24	16911A0205	B KRISHNA VAMSI
25	16911A0208	BOINI AVINASH KUMAR
26	16911A0209	BOLAVENA ANJALI
27	16911A0210	CHERUKU CHANDRA SHEKAR GOUD
28	16911A0211	EAMANI LAKSHMI SARADA PRAVALLIKA
29	16911A0212	GANTA SUJITH
30	16911A0213	GOGIREDDY PRASHANTH KUMAR REDDY
31	16911A0214	HIREKARI ABHISHEK RAJ
32	16911A0296	V SARAYU REDDY
33	17915A0229	G SHASHANK
34	17915A0216	MENDYE NAVEEN
35	17915A0217	MOGILIPURI PAVANI
36	17915A0218	MUCHUMARI MAHESH
37	17915A0219	NALLA VINAY KUMAR
38	17915A0220	P HARI KRISHNA
39	17915A0221	PASUPULA PAVAN KALYAN
40	17915A0222	SAILLA ASHOK

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41	16911A0214	HIREKARI ABHISHEK RAJ
42	17915A0232	BANTU VIJAY
43	16911A0221	KATRAVATH PRAJO NAYAK
44	16911A0222	KESARAPU NAVEEN KUMAR
45	16911A0223	KOTHAKAAPU SHRAVANI
46	16911A0201	ALAVALA SAI PRIYANKA

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

"Earthing and Grounding Practices"

List of Students successfully completed the course

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25	16911A0208	BOINI AVINASH KUMAR
26	16911A0209	BOLAVENA ANJALI
27	16911A0210	CHERUKU CHANDRA SHEKAR GOUD
28	16911A0211	EAMANI LAKSHMI SARADA PRAVALLIKA
29	16911A0212	GANTA SUJITH
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45	16911A0223	KOTHAKAAPU SHRAVANI
46	16911A0201	ALAVALA SAI PRIYANKA

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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2019-20/2 **Date: 17.06.2019**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Internet of Things" for the benefit of III B.Tech (Semester-I) students. This could be scheduled from 21stJune 2019 – 30th September 2019 with 30 hours duration. The interested students can enroll for the course by 20th June 2019. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mr.B.SudhakarReddy	Assistant Professor

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Internet of Things Syllabus

Course Objective:

The Internet of Things (IoT) is a course about the new paradigm of objects interacting with people, with information systems, and with other objects. The course will focus on creative thinking and on hands-on project development.

Prerequisites of the subject: The students will be require to participate actively in creative thinking exercises. IOT is futuristic and will require students to understand other technologies and current uses where IOT can be integrated to make a make a quantum jump in the in the efficiencies in application. A willingness to be creative and participate in open discussions is a must.

Lab Requirements: For the lab project the students will have to be able to develop a simple IOT applications. The total lab time will be 10 hours.

UNIT I: Introduction IOT concepts IOT Standards- Technologies that led to evolution of IOT - IOT and SCADA Components of IOT System -IOT and Big Data

UNIT II: IOT standards in practice - Operating platforms /systems, Relevance of IOT for the future. IOT Applications-Internet of Everything iii) IOT and Individual Privacy - IOT for smart cities

UNIT III: Design of IOT systems - Development of prototypes IOT in Indian Scenario - Lighting as a service - Intelligent Traffic systems- Challenges in IOT implementation -Big Data Management Connectivity challenges - Mission critical applications

Text Book : The Internet of Things: How Smart TVs, Smart Cars, Smart Homes, and Smart Cities Are Changing the World

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Department of Electrical and Electronics Engineering

Internet of Things Syllabus

List of Registered Students (2019-20)

S.No	Roll.No	Name of the Student
1	17911A0201	A JOSHNA
2	17911A0202	A SAI CHARAN
3	17911A0203	AASHISH KUMAR
4	17911A0205	B KRISHNA CHAITANYA
5	17911A0206	B VISHAL PAWAR
6	17911A0208	BALGURI AJAY
7	17911A0209	BANDAGONDA SIRI
8	17911A0212	BHUPATHI SOUMYA
9	17911A0214	BYRI SAIKIRAN
10	17911A0215	D PRATHIBHA
11	17911A0216	DUBBA ANIL SAI
12	17911A0218	GUDIPUDI NAVYA SRI
13	17911A0219	H NAMRITHA REDDY
14	17911A0220	JIVILIKAPALLI PRAVEEN KUMAR
15	17911A0221	KAMSALI MANOJ
16	17911A0222	KANAPURAM MOUNIKA
17	17911A0224	LOKESH KUMAR LOHIA
18	17911A0225	MANCHALI KRISHNA YADAV
19	17911A0226	MAYARA SHIVA KRISHNA
20	17911A0227	MEKANABOINA MANOJ
21	17911A0228	METLUGARI DAYAKAR
22	17911A0230	N ANIL KUMAR
23	18915A0230	PABBATHI MANI KRISHNA
24	18915A0231	PADAMATI SAIKIRAN
25	18915A0232	PARIPELLI YASHWANTH KUMAR
26	18915A0233	POOLA RAVALIKA
27	18915A0234	PRANAY ALLURI
28	18915A0235	PUNEKAR RATNAPRABHA
29	18915A0236	SAMEER SAHANI
30	18915A0237	SHAIK FEROZ
31	18915A0238	SINGIREDDY SAMPATH KUMAR
32	18915A0239	TELUGU BALARAJU
33	18915A0240	THAGARAM SAGAR KUMAR
34	18915A0241	THOKATI HAVEELA
35	18915A0242	TOKAPUR AVINASH
36	17911A0237	S SRINEEJA
37	17911A0238	SAMALETI HIMA BINDU
38	17911A0239	SANKULA SRAVYA
39	17911A0240	SUREDDY NAVITHA REDDY
40	17911A0241	THAGARAM SAI SIDDARDHA
41	17911A0242	THALLAPELLI SAI PRANAY
42	17911A0243	U JYOTHI
43	17911A0244	VADLA SWETHA

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44	17911A0245	VANGA RAKESH
45	18915A0208	DANAM NAVEEN
46	18915A0209	DHARAVATH VENKATESH NAIK
47	18915A0210	DIKONDA NACHIKETHAN
48	18915A0211	GADDAMEEDI VINAYKUMAR
49	18915A0212	GAJJELA YELLA REDDY

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

"Internet of Things Syllabus"

List of Students successfully completed the course

S.No	Roll.No	Name of the Student
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41	17911A0242	THALLAPELLI SAI PRANAY
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43	17911A0244	VADLA SWETHA
44	17911A0245	VANGA RAKESH

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2019-20/03 **Date:** 03-07-2019

CIRCULAR

The Department of Electrical and Electronics Engineering in association with spoken tutorial project, IIT Bombay is planning to conduct certification course on "Scilab Training" for the benefit of IV B.Tech (Semester-I) students. This could be scheduled from 25th july 2019 – 23rd Aug 2019 with 30 hours duration. The interested students can enroll for the course by 20th July 2019. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No	Name	Designation
1	Mrs.V.Vijayalakshmi	Associate Professor

Students who will complete the course successfully with 65% only will get certificate from the Python Institute, Open education and Development group.

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3. IV B.Tech Students

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Scilab Training

COURSE SYLLABUS

COURSE OUTCOMES:

After the course the students will

CO1: Understand Scilab Programming language

CO2: Apply Scilab programming for solving engineering problems

1. Introduction

1.1 Downloading and using the application

1.2 Application environment

1.3 Generalities and basic commands

2. Matrices and vectors

2.1 Creation

2.2 Notation and operations

2.3 Elemental functions and linear equation system

3. Programming

3.1 Scripts

3.2 Functions

3.3 Orders and flow controls

3.3.1 if

3.3.2 for

3.3.3 while

4. Numerical Methods

4.1 Linear equation system

4.1.1 Diagonal System

4.1.2 Upper triangular system

4.1.3 Lower triangular system

4.1.4 Gauss Method

4.1.5 LU Factorization

4.2 Non Linear equation

4.2.1 Newton-Raphson Method

4.3 Non Linear Equation System

4.3.1 Newton method in R

5. Symbolic calculation

5.1 Polynomials

5.2 Operations with Symbolic functions

5.3 Limits calculation

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5.4 Differential calculus

5.5 Integral calculus

5.6 differential equation system

6. GUI with Scilab

6.1 Generalities

6.2 Case1:3D graphic execution through GUI

6.3 Case 2: script execution through GUI

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Department of Electrical and Electronics Engineering

Scilab Training

List of Registered Students (2019-20)

S.No.	Roll. No.	Name of the Student
1	16911A0201	A. Sai Priyanka
2	16911A0202	A. sreeja
3	16911A0205	Krishna Vamsi
4	16911A0208	B. Avinash Kumar
5	16911A0211	E L S Pravallika
6	16911A0212	G.Sujith
7	16911A0214	H. Abhishek Raj
8	16911A0216	K. Rajeshwari
9	16911A0224	K. Ambika
10	16911A0238	N. Pavan Kalyan
11	16911A0243	Shraddha Kulkarni
12	16911A0245	G. Laxmikanth
13	17915A0202	B.Vinayaka Bhoopathi
14	17915A0204	C.Swathi
15	17915A0206	G. Raghu Ram Reddy
16	17915A0207	Renuka. G
17	17915A0210	K.Kapil Kumar
18	17915A0212	Kalikota Sreedhara chary
19	17915A0215	M. Abhilash Goud
20	16911A0257	B. Srinath
21	16911Ao260	C. Pawan
22	16911Ao262	D. Krishna
23	16911Ao266	G. Vidya
24	16911Ao268	K. Adarsh
25	16911Ao270	K. Tarun
26	16911Ao275	Mir Farazuddin
27	16911Ao281	P.Divya
28	16911Ao295	Uda Ramesh
29	17915A0219	Vinay Kumar Nalla
30	17915A0220	P.Hari
31	17915A0221	P.Pavan
32	17915A0230	K. pavan Kumar
33	17915A0232	B. Vijay

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Certification Course - "Scilab Training"
List of Students successfully completed the course

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22	16911Ao262	D. Krishna
23	16911Ao266	G. Vidya
24	16911Ao268	K. Adarsh
25	16911Ao270	K. Tarun
26	16911Ao275	Mir Farazuddin
27	16911Ao281	P.Divya
28	16911Ao295	Uda Ramesh
29	17915A0219	Vinay Kumar Nalla
30	17915A0220	P.Hari
31	17915A0221	P.Pavan
32	17915A0230	K. pavan Kumar
33	17915A0232	B. Vijay

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2019-20/04 **Date:** 09-07-2019

CIRCULAR

The Department of Electrical and Electronics Engineering in association with spoken tutorial project, IIT Bombay is planning to conduct certification course on "Arduino Training" for the benefit of IV B.Tech (Semester-I) students. This could be scheduled from 1st Aug 2019 – 31th Aug 2019 with 30 hours duration. The interested students can enroll for the course by 30th July 2019. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mrs.V.Vijayalakshmi	Associate Professor

Students who will complete the course successfully with 65% only will get certificate from the Python Institute, Open education and Development group.

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Department of Electrical and Electronics Engineering

ARDUINO PROGRAMMING
COURSE SYLLABUS

Arduino is a prototype platform (open-source) based on an easy-to-use hardware and software. It consists of a circuit board, which can be programmed (referred to as a microcontroller) and a Ready-made software called Arduino IDE (Integrated Development Environment), which is used to write and upload the computer code to the physical board. Arduino provides a standard form factor that breaks the functions of the micro-controller into a more accessible package.

Description

This course is intended for enthusiastic students or hobbyists. With Arduino, one can get to know the basics of micro-controllers and sensors very quickly and can start building prototype with very little investment. This course is intended to make you comfortable in getting started with Arduino.

Prerequisites

We assume that you are already familiar with the basics of C and C++. Knowledge in other programming language especially the OOP is an added advantage. A basic understanding of microcontrollers and electronics is also expected.

Learning Outcome

The students will:

- ✓ Learn the basics of electronics, including reading schematics (electronics diagrams)
- ✓ Learn how to prototype circuits with a breadboard
- ✓ Learn the Arduino programming language and IDE
- ✓ Program basic Arduino examples
- ✓ Prototype circuits and connect them to the Arduino
- ✓ Program the Arduino microcontroller to make the circuits work
- ✓ Connect the Arduino microcontroller to a serial terminal to understand Communication and stand-alone use
- ✓ Explore the provided example code and online resources for extending knowledge about the capabilities of the Arduino microcontroller

Outline of instructions

I. Introduction

- ➢ Introduction to embedded system
- ➢ Understanding Embedded System
- ➢ Overview of basic electronics and digital electronics.
- ➢ Microcontroller vs. Microprocessor

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- Common features of Microcontroller.
- Comparison between the two
- Different types of microcontrollers.

II. Getting Started with Arduino

- Introduction to Arduino
- Pin configuration and architecture.
- Device and platform features.
- Concept of digital and analog ports.
- Familiarizing with Arduino Interfacing Board
- Introduction to Embedded C and Arduino platform

III. Review of Basic Concepts

- Arduino data types
- Variables and constants
- Operators
- Control Statements
- Arrays
- Functions

IV. Arduino i/o Functions

- Pins Configured as INPUT
- Pull-up Resistors
- Pins Configured as OUTPUT
- pinMode() Function
- digitalWrite() Function
- analogRead() function
- Arduino Interrupts

V. Arduino Time

- Incorporating Arduino time
- delay() function
- delayMicroseconds() function
- millis() function
- micros() function .

VI. Arduino Displays

- Working with Serial Monitor
- Line graph via serial monitor
- Interfacing a 8 bit LCD to Arduino
- Fixed one line static message display.
- Running message display.
- Using the LCD Library of Arduino.

VII. Arduino Sensors

- Arduino – Humidity Sensor
- Arduino – Temperature Sensor
- Arduino – Water Detector / Sensor

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- Arduino – PIR Sensor
- Arduino – Ultrasonic Sensor
- Arduino – Connecting Switch (Magnetic relay switches)

VIII. Arduino Secondary Integrations

- Types of Relay
- Controlling Electrical appliances with electromagnetic relays
- Working of a matrix keypad
- Using the keypad library to interface with Arduino.
- Interfacing Servo motors to Arduino
- Interfacing a RF Module

IX. Giving Input to the controller

- Using serial input.
- Controlling LEDs with keys.
- Keys as toggle switch.
- Interfacing a piezo Buzzer
- Using a buzzer as an alarm unit

X. Arduino Communications

- Parallel Communication
- Serial Communication Modules
- Types of Serial Communications
- Arduino UART
- GSM/GPRS Arduino Interfacing

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Department of Electrical and Electronics Engineering
Arduino Training
List of Registered Students (2019-20)

S.No.	Roll. No.	Name of the Student
1	16911A0201	A. Sai Priyanka
2	16911A0202	A. sreeja
3	16911A0203	A. Manisha
4	16911A0205	Krishna Vamsi
5	16911A0208	B. Avinash Kumar
6	16911A0211	E L S Pravallika
7	16911A0212	G.Sujith
8	16911A0213	G. Prashanth Reddy
9	16911A0214	H. Abhishek Raj
10	16911A0216	K. Rajeshwari
11	16911A0218	Bharath .B
12	16911A0224	K. Ambika
13	16911A0225	K. Malleshwar
14	16911A0230	M. Rushikesh
15	16911A0233	M. Deekshith
16	16911A0238	N. Pavan Kalyan
17	16911A0241	Rishab shukla
18	16911A0243	Shraddha Kulkarni
19	16911A0245	G. Laxmikanth
20	17915A0203	B.sirisha
21	17915A0206	G. Raghu Ram Reddy
22	17915A0207	Renuka. G
23	17915A0208	H. Akhil
24	17915A0210	K.Kapil Kumar
25	17915A0212	Kalikota Sreedhara chary
26	17915A0213	K. Kishan

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28	16911A0253	B. Srikanth Goud
29	16911A0257	B. Srinath
30	16911A0258	B. Anjaiah
31	16911A0264	G. sohith
32	16911A0268	K. Adarsh
33	16911Ao270	K. Tarun
34	17915A0219	Vinay Kumar
35	17915A0220	P.Hari
36	17915A0221	P.Pavan
37	17915A0225	S. Kusuma
38	17915A0229	G. Shashank
39	17915A0231	P. Sai kumar
40	17915A0232	B. Vijay
41	16911A0250	A. Sitaram Prasad
42	16911A0252	A. shiva Chaitanya

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Certification Course - "Arduino Training"
List of Students successfully completed the course

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7	16911A0212	G.Sujith
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27	17915A0215	M. Abhilash Goud
28	16911A0253	B. Srikanth Goud

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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2018-19/01 **Date: 12.07.2018**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Earthing and Grounding Practices" for the benefit of IV B.Tech (Semester-I) students. This could be scheduled from 23rd July 2018 – 28th Sept 2018 with 30 hours duration. The interested students can enroll for the course by 20th July 2018. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mr.T. Parameshwar	Assistant Professor

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EARTHING AND GROUNDING PRACTICES

Course Outcomes:

After completing the course the students will

CO1: Understand the concepts of electrical grounding done in Power Systems.

CO2: Apply the concepts of grounding for substations, transformers and other quipment

CO3: Analyse the methods of grounding and earthing.

UNIT I: Electrical Substation Grounding

Types of Substation, Layout and Bus Bar schemes, Voltage level, Substation equipments Protection & Control , Substation earthing, tolerance limits of body currents, sil resitivity, earth resistance, tolerable and actual step and touch voltages, design of earthing grid, tower footing resistance, measurement of soil and earth resistivity

UNIT II: Power System Earthing

Ground versus isolated neutral, solidly and effectively grounded system , rsistenace and impedance grounding.

Resonant grounding, reactance grounding, voltage transformer grounding, zigzag transformer grounding

UNIT III: Grounding Practice

Grounding practice, effect of grounding on system, over voltages and protection, over voltage and over voltage phenomenon in isolated and grounded neutral system.

Textbook

1. Power System Analysis & Design by B.R. Gupta –S.Chand
2. Sub Station Design and Equipment – Gupta & Satnam (Dhanpat Rai & Sons)

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Earthing and Grounding Practices

List of Registered Students (2018-19)

S.No	Roll. No	Name of the student
1	15911A0202	AKKI PRANAY RAJEEV REDDY
2	15911A0203	ALWALA SHARANYA
3	15911A0205	BAIRI AJAY
4	15911A0206	BAKKAGARI RANJITHKUMAR
5	15911A0207	BAKKI SAHITH
6	15911A0208	BANDARU SAIPRASANNA
7	15911A0209	BANDI SAI KRISHNA
8	15911A0213	BOMMAKANTI HARSHITHA
9	15911A0214	CHITTEPU SHIVA PRASAD REDDY
10	15911A0215	DHANAVATH HEMANTH NAIK
11	15911A0216	G SAARIKA
12	15911A0213	BOMMAKANTI HARSHITHA
13	15911A0214	CHITTEPU SHIVA PRASAD REDDY
14	15911A0215	DHANAVATH HEMANTH NAIK
15	15911A0226	KOLLURI CHANDRASHEKAR REDDY
16	15911A0227	KONIREDDY VINEETH REDDY
17	15911A0228	KOWTIKWAR SACHIN
18	15911A0229	KUMMARI ARAVIND
19	15911A0231	MALIPATEL AKASH
20	15911A0232	MALOTH RAMAKRISHNA
21	15911A0233	MANISH KUMAR
22	15911A0234	MANTHAPURAM SAHITYA
23	15911A0235	MARAM SAIKRISHNA YADAV
24	15911A0236	MAZUMDAR JAYASREE
25	15911A0226	KOLLURI CHANDRASHEKAR REDDY
26	15911A0227	KONIREDDY VINEETH REDDY
27	15911A0228	KOWTIKWAR SACHIN
28	15911A0229	KUMMARI ARAVIND
29	15911A0231	MALIPATEL AKASH
30	15911A0232	MALOTH RAMAKRISHNA
31	15911A0282	MOHAMMED SHAFEEQ UDDIN
32	15911A0283	MOHD FEROZ
33	15911A0284	MYLARISHETTY VENKATESH
34	15911A0285	N SRIKANTH REDDY
35	15911A0286	NUNAVATH SANDEEP KUMAR
36	15911A0287	OUKU VENKATA KALYAN
37	15911A0288	P LAKSHMI TANMAYE
38	15911A0289	PATHAN AFREEN
39	15911A0290	R SUMITH KUMAR
40	15911A0291	RACHAKONDA RAJKUMAR
41	15911A0292	SAI TEJA AUSULA

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Earthing and Grounding Practices

List of Students successfully completed the course

S.No	Roll. No	Name of the student
1	15911A0202	AKKI PRANAY RAJEEV REDDY
2	15911A0203	ALWALA SHARANYA
3	15911A0205	BAIRI AJAY
4	15911A0206	BAKKAGARI RANJITHKUMAR
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7	15911A0209	BANDI SAI KRISHNA
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10	15911A0215	DHANAVATH HEMANTH NAIK
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15	15911A0226	KOLLURI CHANDRASHEKAR REDDY
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21	15911A0233	MANISH KUMAR
22	15911A0234	MANTHAPURAM SAHITYA
23	15911A0235	MARAM SAIKRISHNA YADAV
24	15911A0236	MAZUMDAR JAYASREE
25	15911A0226	KOLLURI CHANDRASHEKAR REDDY
26	15911A0227	KONIREDDY VINEETH REDDY
27	15911A0228	KOWTIKWAR SACHIN
28	15911A0229	KUMMARI ARAVIND
29	15911A0231	MALIPATEL AKASH
30	15911A0232	MALOTH RAMAKRISHNA
31	15911A0282	MOHAMMED SHAFEEQ UDDIN
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33	15911A0284	MYLARISHETTY VENKATESH
34	15911A0285	N SRIKANTH REDDY
35	15911A0286	NUNAVATH SANDEEP KUMAR
36	15911A0287	OUKU VENKATA KALYAN
37	15911A0288	P LAKSHMI TANMAYE
38	15911A0289	PATHAN AFREEN
39	15911A0290	R SUMITH KUMAR
40	15911A0291	RACHAKONDA RAJKUMAR
41	15911A0292	SAI TEJA AUSULA

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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2018-2019/02 **Date: 12.07.2018**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "PLC Programming" for the benefit of III B.Tech (Semester-I) students. This could be scheduled from 23rd July 2018 – 28th Sept 2018 with 30 hours duration. The interested students can enroll for the course by 20th July 2018. All the registered students must attend the classes without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mr. P. Nageswara Rao	Assistant Professor

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Department of Electrical and Electronics Engineering
PLC Programming Syllabus

COURSE OBJECTIVES

The course will provide information which should enable the student to:

1. Explain programmable logic controllers and programming

2. Develop logic systems and fundamental PLC wiring diagrams and ladder programs

UNIT I: Program Logic Controller, Logic System, Number system, Codes, Combination logic

UNIT II: PLC Programming - Ladder programs - Timers - Counters - Advanced PLC Instructions - Program control instructions

UNIT III: PLC Installation Practices - Installation – Troubleshooting- Applications

COMPETENCIES: At the conclusion of the course the student will be able to:

1. List and describe the function of the hardware components used in PLC systems and the functions of a memory map
2. List PLC advantages over relay systems
3. Define the decimal, binary, octal, and hexadecimal numbering systems and be able to convert from one numbering or coding system to another
4. Draw the logic symbol, construct a truth table, and state the Boolean equation for the AND, OR, and NOT functions
5. Construct circuits from Boolean expressions and derive Boolean equations for given logic circuits
6. Convert relay ladder diagrams to logic ladder diagrams
7. Describe input and output image tables and a typical PLC program scan sequence
8. Compare sequential and combination control processes
9. Describe proper grounding practices and preventive maintenance tasks associated with PLC systems
10. Define and identify the functions of PLC instructions.

TEXTBOOK:

1. Petruzella, Frank D.. Programmable Logic Controllers, 3rd ed. McGraw Hill , ISBN-13: 0-07-829852-0

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Department of Electrical and Electronics Engineering

PLC Programming

List of Registered Students (2018-19)

S.No	Roll. No	Name of the student
1	16911A0250	ADDHANKI SITARAM PRASAD
2	16911A0251	AHMED AHTESHAM UDDIN
3	16911A0252	ALUVALA SHIVACHAITHANYA
4	16911A0253	B SRIKANTH GOUD
5	16911A0254	BAMANDLA NIKHIL
6	16911A0256	BHUKYA HIMABINDU
7	16911A0257	BOLLEBOINA SRINATH YADAV
8	16911A0258	BOMMAKANTI ANJAIAH
9	16911A0259	CHAKALI SRISAILAM
10	16911A0260	CHILAKURI PAWAN REDDY
11	16911A0250	ADDHANKI SITARAM PRASAD
12	16911A0251	AHMED AHTESHAM UDDIN
13	16911A0252	ALUVALA SHIVACHAITHANYA
14	16911A0253	B SRIKANTH GOUD
15	16911A0254	BAMANDLA NIKHIL
16	16911A0256	BHUKYA HIMABINDU
17	16911A0257	BOLLEBOINA SRINATH YADAV
18	16911A0258	BOMMAKANTI ANJAIAH
19	16911A0277	MOTAM SUDARSHAN
20	16911A0278	NIMMAGADDA HARISH KUMAR
21	16911A0281	PEDDA BOMMA DIVYA SREE
22	16911A0282	PISUPATI SAI CHANDANA
23	16911A0285	PUDURU PRAMOD
24	16911A0286	PUNNAMRAJ HARISHCHANDRA PRASAD
25	16911A0287	R BINDU
26	16911A0288	RAVALI CHANDANKARE
27	16911A0216	K RAJA RAJESHWARI
28	16911A0217	KADAPA PRAVEEN KUMAR REDDY
29	16911A0218	KAKUMANU BHARATH KUMAR
30	16911A0219	KANDARI SAI PRASAD
31	16911A0220	KASIREDDY RAGHAVENDRA REDDY
32	16911A0221	KATRAVATH PRAJO NAYAK
33	16911A0222	KESARAPU NAVEEN KUMAR
34	16911A0223	KOTHAKAAPU SHRAVANI
35	16911A0224	KOTTHA AMBIKA
36	16911A0287	R BINDU
37	16911A0288	RAVALI CHANDANKARE
38	16911A0289	RENIKUNTA SHIVA CHARAN
39	16911A0233	MATTEPALLY DEEKSHITH
40	16911A0234	MD AWAIZ
41	16911A0235	MOHD ABDUL SAMEE
42	16911A0237	MUDAVATH GANESH
43	16911A0238	NAREDLA PAVAN KALYAN
44	16911A0241	RISHAB SHUKLA
45	17915A0228	THUNDLA PRAVEEN

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

"Basics of Electric Vehicles"

List of Students successfully completed the course

S.No	Roll. No	Name of the student
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2	16911A0251	AHMED AHTESHAM UDDIN
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7	16911A0257	BOLLEBOINA SRINATH YADAV
8	16911A0258	BOMMAKANTI ANJAIAH
9	16911A0259	CHAKALI SRISAILAM
10	16911A0260	CHILAKURI PAWAN REDDY
11	16911A0250	ADDHANKI SITARAM PRASAD
12	16911A0251	AHMED AHTESHAM UDDIN
13	16911A0252	ALUVALA SHIVACHAITHANYA
14	16911A0253	B SRIKANTH GOUD
15	16911A0254	BAMANDLA NIKHIL
16	16911A0256	BHUKYA HIMABINDU
17	16911A0257	BOLLEBOINA SRINATH YADAV
18	16911A0258	BOMMAKANTI ANJAIAH
19	16911A0277	MOTAM SUDARSHAN
20	16911A0278	NIMMAGADDA HARISH KUMAR
21	16911A0281	PEDDA BOMMA DIVYA SREE
22	16911A0282	PISUPATI SAI CHANDANA
23	16911A0285	PUDURU PRAMOD
24	16911A0286	PUNNAMRAJ HARISHCHANDRA PRASAD
25	16911A0287	R BINDU
26	16911A0288	RAVALI CHANDANKARE
27	16911A0216	K RAJA RAJESHWARI
28	16911A0217	KADAPA PRAVEEN KUMAR REDDY
29	16911A0218	KAKUMANU BHARATH KUMAR
30	16911A0219	KANDARI SAI PRASAD
31	16911A0220	KASIREDDY RAGHAVENDRA REDDY
32	16911A0221	KATRAVATH PRAJO NAYAK
33	16911A0222	KESARAPU NAVEEN KUMAR
34	16911A0223	KOTHAKAAPU SHRAVANI
35	16911A0224	KOTTHA AMBIKA
36	16911A0287	R BINDU
37	16911A0288	RAVALI CHANDANKARE
38	16911A0289	RENIKUNTA SHIVA CHARAN
39	16911A0233	MATTEPALLY DEEKSHITH
40	16911A0234	MD AWAIZ
41	16911A0235	MOHD ABDUL SAMEE
42	16911A0237	MUDAVATH GANESH
43	16911A0238	NAREDLA PAVAN KALYAN
44	16911A0241	RISHAB SHUKLA
45	17915A0228	THUNDLA PRAVEEN

SSP

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Vidya Jyothi Institute of Technology

Himayatnagar (Vill), C.B. Post.,

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2018-2019/03 **Date: 13.12.2018**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Internet of Things" for the benefit of III B.Tech (Semester-II) students. This could be scheduled from 17th December 2016 – 29th March 2017 with 30 hours duration. The interested students can enroll for the course by 15th December 2016. All the registered students must attend the classes without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Dr. D. B. G. Reddy	Professor

HoD/EEE

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2. Notice Board
3. IV B.Tech Students

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Department of Electrical and Electronics Engineering
Internet of Things Syllabus

Course Objective:

The Internet of Things (IoT) is a course about the new paradigm of objects interacting with people, with information systems, and with other objects. The course will focus on creative thinking and on hands-on project development.

Course Outcomes:

After completing this course the student must demonstrate the knowledge and ability to	
CO1	Describe various IoT enabled technologies.
CO2	Understand the concepts of M2M with necessary protocols.
CO3	Illustrate Python programming for IoT
CO4	Examine the Python programming with Raspberry PI
CO5	Design web applications for IoT

UNIT I: Introduction IOT concepts IOT Standards- Technologies that led to evolution of IOT - IOT and SCADA Components of IOT System -IOT and Big Data

UNIT II: IOT standards in practice - Operating platforms /systems, Relevance of IOT for the future. IOT Applications-Internet of Everything iii) IOT and Individual Privacy - IOT for smart cities

UNIT III: Design of IOT systems - Development of prototypes IOT in Indian Scenario - Lighting as a service - Intelligent Traffic systems- Challenges in IOT implementation -Big Data Management Connectivity challenges - Mission critical applications

Text Book : The Internet of Things: How Smart TVs, Smart Cars, Smart Homes, and Smart Cities Are Changing the World

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Department of Electrical and Electronics Engineering

Internet of Things Syllabus

List of Registered Students (2018-19)

S.No	Roll.No	Name of the student
1	16911A0202	ANANTHA SREEJA
2	16911A0203	ANTHAMGARI MANISHA
3	16911A0204	APPAJI NAGENDER PATEL
4	16911A0205	B KRISHNA VAMSI
5	16911A0208	BOINI AVINASH KUMAR
6	16911A0209	BOLAVENA ANJALI
7	16911A0210	CHERUKU CHANDRA SHEKAR GOUD
8	16911A0211	EAMANI LAKSHMI SARADA PRAVALLIKA
9	16911A0212	GANTA SUJITH
10	16911A0213	GOGIREDDY PRASHANTH KUMAR REDDY
11	16911A0214	HIREKARI ABHISHEK RAJ
12	16911A0216	K RAJA RAJESHWARI
13	16911A0217	KADAPA PRAVEEN KUMAR REDDY
14	16911A0218	KAKUMANU BHARATH KUMAR
15	16911A0219	KANDARI SAI PRASAD
16	16911A0220	KASIREDDY RAGHAVENDRA REDDY
17	16911A0221	KATRAVATH PRAJO NAYAK
18	16911A0222	KESARAPU NAVEEN KUMAR
19	16911A0223	KOTHAKAAPU SHRAVANI
20	16911A0224	KOTTHA AMBIKA
21	16911A0250	ADDHANKI SITARAM PRASAD
22	16911A0251	AHMED AHTESHAM UDDIN
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26	16911A0256	BHUKYA HIMABINDU
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30	16911A0260	CHILAKURI PAWAN REDDY
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34	16911A0253	B SRIKANTH GOUD
35	16911A0254	BAMANDLA NIKHIL
36	16911A0268	KAASULA ADARSH
37	16911A0270	KANUGULA TARUN
38	16911A0271	KOLANU VANI
39	16911A0272	KOPPOJU ARAVINDA CHARY
40	16911A0273	KOTTAM AKSHITA

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

"Internet of Things Syllabus"

List of Students successfully completed the course

S.No	Roll.No	Name of the student
1	16911A0202	ANANTHA SREEJA
2	16911A0203	ANTHAMGARI MANISHA
3	16911A0204	APPAJI NAGENDER PATEL
4	16911A0205	B KRISHNA VAMSI
5	16911A0208	BOINI AVINASH KUMAR
6	16911A0209	BOLAVENA ANJALI
7	16911A0210	CHERUKU CHANDRA SHEKAR GOUD
8	16911A0211	EAMANI LAKSHMI SARADA PRAVALLIKA
9	16911A0212	GANTA SUJITH
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37	16911A0270	KANUGULA TARUN
38	16911A0271	KOLANU VANI
39	16911A0272	KOPPOJU ARAVINDA CHARY
40	16911A0273	KOTTAM AKSHITA

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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2017-18/01 **Date: 12.07.2017**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Basics of Electric Vehicles" for the benefit of IV B.Tech (Semester-I) students. This could be scheduled from 22nd July 2017 – 30th Sept 2017 with 30 hours duration. The interested students can enroll for the course by 20th July 2017. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mr.T.Parameshwar	Assistant Professor

HoD/EEE

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3. IV B.Tech Students

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Department of Electrical and Electronics Engineering

BASICS of ELECTRIC VEHICLES

UNIT I - ELECTRIC VEHICLES

Introduction, History of Electric Vehicles - Components, vehicle mechanics, vehicle kinetics, Dynamics of vehicle motion

UNIT II - BATTERIES

Basics -Types, Parameters - Capacity, Discharge rate, State of charge, state of Discharge, Depth of Discharge, Technical characteristics Fuel Cells - Types - Fuel Cell Electric Vehicle.

UNIT III - ELECTRIC VEHICLE DRIVE TRAIN

Transmission configuration, Components - gears, differential, clutch, brakes - regenerative braking in EVs

OUTCOMES:

After this course, the student will

- Understand theworking of different configurations of electric vehicles, and its components.
- Apply the concepts for Electric Vehicles

TEXT BOOKS:

1. Iqbal Hussain, "Electric & Hybrid Vehicles - Design Fundamentals", Second Edition, CRC Press, 2011.
2. James Larminie, "Electric Vehicle Technology Explained", John Wiley & Sons, 2003.

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Basics of Electric Vehicles

List of Registered Students (2017-18)

S.No	Roll. No	Name of the student
1	14911A0214	J. Swathi
2	14911A0215	K. Mounika
3	14911A0216	KANUGANTI VARUN SAI TEJA
4	14911A0217	KARRI SRUTHI
5	14911A0218	KODURI NAGASWATHI
6	14911A0219	KOMMIDI RAGHU
7	14911A0221	KUMBALA SANTHOSH REDDY
8	14911A0222	LAKAVATH NEHRU
9	14911A0223	LAVUDIYA YADAGIRI
10	14911A0224	M DHEERAJ REDDY
11	14911A0238	SAGGURTHI NIRMAL KUMAR
12	14911A0239	SHABAD DEEPAK KUMAR
13	14911A0240	Shaik Javeed
14	14911A0241	SHAIK RAFI
15	14911A0243	Tandra Abhishek Kumar
16	14911A0244	V. Naveen Kumar
17	14911A0246	YAMSANI ABHINAV KUMAR
18	14911A0269	MADDELA ANIL KUMAR
19	14911A0270	MADIKANTI PRASHANTH
20	14911A0271	MD MINHAJUDDIN
21	14911A0272	MEGAVATH VAMSHI KRISHNA
22	14911A0273	MOHD ABRAR
23	14911A0274	MOHD ARIF
24	14911A0275	NEMOTORU LAXMIKANTH
25	14911A0276	PUSALA SAI CHARAN
26	14911A0277	PETTEM SAI PRASANNA
27	14911A0278	RASURI SAI KIRAN
28	14911A0279	REBBA GOUTHAM RAJ
29	14911A0280	SALENDRA AJAY KUMAR
30	14911A0281	SEELAM VINOD
31	15915A0214	KARNATI SANTOSH VARUN
32	15915A0215	P ARUN KUMAR
33	15915A0216	PATEL ANVESH
34	15915A0218	SORRA YASVANTH RAJU
35	15915A0219	T THIRUMAL REDDY
36	15915A0220	VANKUDOTH PRAVEEN

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

"Basics of Electric Vehicles"
List of Students successfully completed the course

S.No	Roll. No	Name of the student
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3	14911A0216	KANUGANTI VARUN SAI TEJA
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32	15915A0215	P ARUN KUMAR

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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2017-18/02 **Date: 11.12.2017**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "ELECTRICAL SMART GRIDS" for the benefit of III B.Tech (Semester-II) students. This could be scheduled from 15th December 2017 – 30th March 2018 with 30 hours duration. The interested students can enroll for the course by 14th December 2017. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mr.B.Sudhakar Reddy	Assistant Professor

HoD/EEE

Copy to:

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3. IIIB.Tech Students

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Department of Electrical and Electronics Engineering

ELECTRICAL SMART GRIDS

Course Outcomes:

The student will be able to

CO1:understand the features of Smart Grid.

CO2: Judge the role of automation in Transmission and Distribution

CO3: Apply concepts of operation Voltage and Frequency control in Micro Grids.

UNIT I:

Introduction to Smart Grid

Introduction to Smart Grid - Working definitions of Smart Grid and Associated Concepts – Smart Grid Functions – Traditional Power Grid and Smart Grid – New Technologies for Smart Grid – Advantages

UNIT II:

Smart Grid Architecture

Components and Architecture of Smart Grid Design – Review of the proposed architectures for Smart Grid. The fundamental components of Smart Grid designs – Transmission Automation – Distribution Automation

UNIT III:

Control of Smart Power Grid System: Load Frequency Control (LFC) in Micro Grid System – Voltage Control in Micro Grid System – Reactive Power Control in Smart Grid.

Text Books:

1. Stuart Borlase, Smart Grids, Infrastructure, Technology and Solutions, CRC Press, 1e, 2013
2. Gil Masters, Renewable and Efficient Electric Power System, Wiley–IEEE Press, 2e, 2013.

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Department of Electrical and Electronics Engineering

Electrical Smart Grids

List of Registered Students (2017-18)

S.No	Roll No	Name of the student
1	15911A0201	ABDUL WAHED
2	15911A0202	A PRANAY RAJEEV REDDY
3	15911A0203	ALWALA SHARANYA
4	15911A0205	BAIRI AJAY
5	15911A0206	B RANJITHKUMAR
6	15911A0207	BAKKI SAHITH
7	15911A0208	BANDARU SAIPRASANNA
8	15911A0209	BANDI SAI KRISHNA
9	15911A0210	BANOTH NAGESHWAR RAO
10	15911A0211	BANOTH SUJATHA
11	15911A0212	BASILLA AKSHAY KUMAR
12	15911A0213	BOMMAKANTI HARSHITHA
13	15911A0214	CH SHIVA PRASAD REDDY
14	15911A0215	D HEMANTH NAIK
15	15911A0227	K VINEETH REDDY
16	15911A0228	KOWTIKWAR SACHIN
17	15911A0229	KUMMARI ARAVIND
18	15911A0231	MALIPATEL AKASH
19	15911A0232	MALOTH RAMAKRISHNA
20	15911A0233	MANISH KUMAR
21	15911A0234	MANTHAPURAM SAHITYA
22	15911A0235	M SAIKRISHNA YADAV
23	15911A0236	MAZUMDAR JAYASREE
24	15911A0265	CHIPPALAPALLY LENIN
25	15911A0266	CHUKKA NEERAB KUMAR
26	15911A0267	DANNADA SRINIVAS
27	15911A0268	E G GOURAV
28	15911A0269	G VENKATESHWAR REDDY
29	15911A0270	G JYOTHIRMAYEE

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

"Electrical Smart Grids"

List of Students successfully completed the course

S.No	Roll No	Name of the student
1	15911A0201	ABDUL WAHED
2	15911A0202	A PRANAY RAJEEV REDDY
3	15911A0203	ALWALA SHARANYA
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28	15911A0269	G VENKATESHWAR REDDY
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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2016-2017/01 **Date: 20.06.2016**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Basics of Electric Vehicles" for the benefit of IV B.Tech (Semester-I) students. This could be scheduled from 24nd June 2016 – 30th Sept 2016 with 30 hours duration. The interested students can enroll for the course by 22nd June 2016. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mr. B. Sudhakar Reddy	Assistant Professor

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Hyderabad-75

Department of Electrical and Electronics Engineering

BASICS of ELECTRIC VEHICLES

UNIT I - ELECTRIC VEHICLES

Introduction, History of Electric Vehicles - Components, vehicle mechanics, vehicle kinetics. Dynamics of vehicle motion

UNIT II - BATTERIES

Basics -Types, Parameters - Capacity, Discharge rate, State of charge, state of Discharge, Depth of Discharge, Technical characteristics Fuel Cells - Types - Fuel Cell Electric Vehicle.

UNIT III - ELECTRIC VEHICLE DRIVE TRAIN

Transmission configuration, Components - gears, differential, clutch, brakes - regenerative braking in EVs

OUTCOMES:

After this course, the student will

- Understand theworking of different configurations of electric vehicles, and its components.
- Apply the concepts for Electric Vehicles

TEXT BOOKS:

1. Iqbal Hussain, "Electric & Hybrid Vehicles - Design Fundamentals", Second Edition, CRC Press, 2011.
2. James Larminie, "Electric Vehicle Technology Explained", John Wiley & Sons, 2003.

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

Vidya Jyothi Institute of Technology

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical and Electronics Engineering

Basics of Electric Vehicles
List of Registered Students (2016-17)

S.No	Roll No	Name of the student
1	13911A0261	DUDAM KRANTHI KUMAR
2	13911A0262	EDUPUGANTI AKHIL
3	13911A0263	G PHANI SEKHAR
4	13911A0264	GADDALA JEEVAN
5	13911A0265	**GOLLAGADDA VAISHNAVI**
6	13911A0266	GORINTLA MADHU KIRAN
7	13911A0267	GUNDOJU SOWMYA
8	13911A0268	GURRAPU JAMUNA
9	13911A0269	ILAPURAM MAHESH
10	13911A0270	JAKKULA RAVI KUMAR
11	13911A0271	K SAIKIRAN
12	13911A0272	K SHIVA KUMAR
13	13911A0273	KADAI MAHESH KUMAR YADAV
14	13911A0274	KANAKATLA NARESHKUMAR
15	13911A0275	KANKARI SRISAILAM
16	13911A0276	KANNOJU HARISH
17	13911A0241	NEMALI RAJESH REDDY
18	13911A0242	PASUPULETI SRI RAJA RAJESHWARI
19	13911A0244	POGAKU VAMSHI
20	13911A0245	SHAIK RAHEEM
21	13911A0246	SOURAV SENGUPTA
22	13911A0247	TAMMISETTI HARI PRASAD
23	13911A0249	VEERAMREDDY KRISHNA VENI
24	13911A0250	VENGALA RAVIKUMAR
25	14915A0201	ADA SAI KIRAN
26	14915A0202	ANPURAM RAGHAVENDRA
27	14915A0203	ARIGE SANTHOSH
28	14915A0204	BADAVATH SRIKANTH
29	14915A0205	BADAVATH VENKATESH
30	14915A0206	BANDAVATH HARI KUMAR
31	14915A0207	BANOTHU NAVEEN
32	14915A0208	BARIBADDULA AKHIL
33	14915A0209	BATHULA AKASH
34	14915A0210	BODDU SANJEEV

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"Basics of Electric Vehicles"
List of Students successfully completed the course

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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2016-2017/02 **Date: 13.12.2016**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Internet of Things" for the benefit of III B.Tech (Semester-II) students. This could be scheduled from 17th December 2016 – 30th March 2017 with 30 hours duration. The interested students can enroll for the course by 16th December 2016. All the registered students must attend the classes without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Dr. D. B. G. Reddy	Professor

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3. IV B.Tech Students

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Vidya Jyothi Institute of Technology
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Department of Electrical and Electronics Engineering
Internet of Things Syllabus

Course Objective:

The Internet of Things (IoT) is a course about the new paradigm of objects interacting with people, with information systems, and with other objects. The course will focus on creative thinking and on hands-on project development.

Course Outcomes:

After completing this course the student must demonstrate the knowledge and ability to	
CO1	Describe various IoT enabled technologies.
CO4	Examine the Python programming with Raspberry PI
CO5	Design applications for IoT

UNIT I: Introduction IOT concepts IOT Standards- Technologies that led to evolution of IOT - IOT and SCADA Components of IOT System -IOT and Big Data

UNIT II: IOT standards in practice - Operating platforms /systems, Relevance of IOT for the future. IOT Applications-Internet of Everything iii) IOT and Individual Privacy - IOT for smart cities

UNIT III: Design of IOT systems - Development of prototypes IOT in Indian Scenario - Lighting as a service - Intelligent Traffic systems- Challenges in IOT implementation -Big Data Management Connectivity challenges - Mission critical applications

Text Book: The Internet of Things: How Smart TVs, Smart Cars, Smart Homes, and Smart Cities Are Changing the World

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Department of Electrical and Electronics Engineering

Internet of Things Syllabus

List of Registered Students (2016-17)

S.No	Roll.No	Name of the student
1	14911A0214	J. Swathi
2	14911A0215	K. Mounika
3	14911A0216	K VARUN SAI TEJA
4	14911A0217	KARRI SRUTHI
5	14911A0218	KODURI NAGASWATHI
6	14911A0219	KOMMIDI RAGHU
7	14911A0220	K PRUDWIRAJ CHOUHAN
8	14911A0221	K SANTHOSH REDDY
9	14911A0222	LAKAVATH NEHRU
10	14911A0223	LAVUDIYA YADAGIRI
11	14911A0237	S. Anusha Reddy
12	14911A0238	S NIRMAL KUMAR
13	14911A0239	SHABAD DEEPAK KUMAR
14	14911A0240	Shaik Javeed
15	14911A0241	SHAIK RAFI
16	14911A0242	S P KRISHNA KANTH
17	14911A0243	Tandra Abhishek Kumar
18	14911A0244	V. Naveen Kumar
19	14911A0245	Y. Avinash
20	14911A0246	Y ABHINAV KUMAR
21	15915A0201	A D ELYSIAN SATHWIK
22	15915A0202	A.VINOD
23	15915A0203	BEEMEREDDY MANJU
24	14911A0272	MEGAVATH VAMSHI KRISHNA
25	14911A0273	MOHD ABRAR
26	14911A0274	MOHD ARIF
27	14911A0275	NEMOTORU LAXMIKANTH
28	14911A0276	PUSALA SAI CHARAN
29	14911A0277	PETTEM SAI PRASANNA
30	14911A0278	RASURI SAI KIRAN
31	14911A0279	REBBA GOUTHAM RAJ
32	14911A0280	SALENDRA AJAY KUMAR
33	14911A0281	SEELAM VINOD
34	14911A0282	SIKA AKHIL
35	14911A0283	SUNKUM VINOD KUMAR

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31	14911A0279	REBBA GOUTHAM RAJ
32	14911A0280	SALENDRA AJAY KUMAR
33	14911A0281	SETTAM VINOD
34	14911A0282	SIKA AKHIL
35	14911A0283	SUNKUM VINOD KUMAR

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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2015-2016/01 **Date: 29.06.2015**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Basics of Electric Vehicles" for the benefit of IV B.Tech (Semester-I) students. This could be scheduled from 1st July 2015 – 30th Sept 2015 with 30 hours duration. The interested students can enroll for the course by 30th June 2015. All the registered students must attend the class without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mr. M. Vijay Kumar	Assistant Professor

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Vidya Jyothi Institute of Technology
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Department of Electrical and Electronics Engineering

BASICS of ELECTRIC VEHICLES

UNIT I - ELECTRIC VEHICLES

Introduction, History of Electric Vehicles - Components, vehicle mechanics, vehicle kinetics, Dynamics of vehicle motion

UNIT II – BATTERIES& MOTORS

Basics -Types, Parameters - Capacity, Discharge rate, State of charge, state of Discharge, Depth of Discharge, Technical characteristics Fuel Cells - Types - Fuel Cell Electric Vehicle Induction Motors and PMSM - BLDC Motor for EVs

UNIT III - ELECTRIC VEHICLE DRIVE TRAIN

Transmission configuration, Components - gears, differential, clutch, brakes - regenerative braking in EVs

OUTCOMES:

After this course, the student will

- Understand theworking of different configurations of electric vehicles, and its components.
- Apply the concepts for Electric Vehicles

TEXT BOOKS:

1. Iqbal Hussain, "Electric & Hybrid Vehicles - Design Fundamentals", Second Edition, CRC Press, 2011.
2. James Larminie, "Electric Vehicle Technology Explained", John Wiley & Sons, 2003.

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Department of Electrical and Electronics Engineering

Basics of Electric Vehicles
List of Registered Students (2015-16)

S.No	Roll.No	Name of the student
1	12911A0201	AITHARAJU SAMPATH KUMAR
2	12911A0202	ATHALURI YESWANTH SAI
3	12911A0203	BANOTH VAMSHI KRUSHNA
4	12911A0204	BATTWAR SATISH
5	12911A0205	Bhandaru Shravani
6	12911A0206	BODA ANUSHA
7	12911A0207	BUDDE MADHURI
8	12911A0218	H Shireesha
9	12911A0219	K RAJA
10	12911A0220	KATTA SINDHUJA
11	12911A0221	KODURE SREEPRIYA
12	12911A0222	KUKKALA SNEHALATHA
13	12911A0223	KUNJA VENNELA
14	12911A0224	Kuruganty Sri Teja
15	12911A0225	L DILIP KUMAR REDDY
16	13915A0204	DHARAVATHU UPENDER
17	13915A0205	G MOHAN
18	13915A0206	G RAJESH KUMAR
19	13915A0207	GUGULOTH NARESH
20	13915A0208	GUNNALA VENU GOUD
21	13915A0209	J AMARENDER REDDY
22	13915A0210	K THIRUMALESH
23	12911A0263	CHAKILAM ANVESH
24	12911A0264	CHERLAKOLA VENKAT REDDY
25	12911A0265	CHILAKAMARI ACHYUTH
26	12911A0266	CHILUSANI AMULYA
27	12911A0267	CHIPPA VENUGOPAL
28	12911A0268	CHUNCHU ANUBHAV
29	12911A0269	DERANGULA VENKATA ASHOK
30	12911A0270	EDAM NITHISH KUMAR
31	12911A0271	G RAGHAVENDHAR
32	12911A0272	G RAJINIKANTH
33	12911A0273	GOPIREDDY MOUNIKA
34	12911A0274	GUJJA JEEVAN KUMAR

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"Basics of Electric Vehicles"

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Department of Electrical and Electronics Engineering

Ref: VJIT/EEE/VAC/2015-2016/02 **Date: 14.12.2015**

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to conduct a course on "Electrical Smart Grids" for the benefit of III B.Tech (Semester-II) students. This could be scheduled from 18th December 2015 – 30th March 2016 with 30 hours duration. The interested students can enroll for the course by 17th December 2015. All the registered students must attend the classes without fail.

The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mrs. K. Swapna	Assistant Professor

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Department of Electrical and Electronics Engineering

ELECTRICAL SMART GRIDS

Course Outcomes:

The student will be able to

CO1: understand the features of Smart Grid.

CO2: Judge the role of automation in Transmission and Distribution

CO3: Apply concepts of operation Voltage and Frequency control in Micro Grids.

UNIT I:

Introduction to Smart Grid

Introduction to Smart Grid - Working definitions of Smart Grid and Associated Concepts – Smart Grid Functions – Traditional Power Grid and Smart Grid – New Technologies for Smart Grid – Advantages

UNIT II:

Smart Grid Architecture

Components and Architecture of Smart Grid Design – Review of the proposed architectures for Smart Grid. The fundamental components of Smart Grid designs – Transmission Automation – Distribution Automation

UNIT III:

Control of Smart Power Grid System: Load Frequency Control (LFC) in Micro Grid System – Voltage Control in Micro Grid System – Reactive Power Control in Smart Grid.

Text Books:

1. Stuart Borlase, Smart Grids, Infrastructure, Technology and Solutions, CRC Press, 1e, 2013
2. Gil Masters, Renewable and Efficient Electric Power System, Wiley–IEEE Press, 2e, 2013.

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Department of Electrical and Electronics Engineering

ELECTRICAL SMART GRIDS
List of Registered Students (2015-16)

S.No	Roll No	Name of the student
1	13911A0251	A SHRAVAN KUMAR
2	13911A0252	ADLA RAKESH REDDY
3	13911A0253	ADUSUMALLI MADHAVI
4	13911A0254	AKKANA SAI KUMAR
5	13911A0255	BANOTHU MOHAN
6	13911A0256	BOMMANA LAKSHMAN
7	13911A0257	CHANDAVATH NARESH
8	13911A0258	CHENI MANOHAR
9	13911A0259	CHINTAKUNTA VAMSHI
10	13911A0261	DUDAM KRANTHI KUMAR
11	13911A0293	REHAMAN ALI
12	13911A0294	SANJAY SING CHOWHAN
13	13911A0295	SHAIK AQUIB RIZWAN
14	13911A0296	SHEELAM VENKATA KRISHNA REDDY
15	13911A0297	SOLE SUNDARA JAWAHAR
16	13911A0210	C NITHIN SAI
17	13911A0211	DAKURI SANDEEP
18	13911A0212	DESHAWATH RAJASHEKAR NAIK
19	13911A0213	DHARAVATH ABHISHEK
20	13911A0214	ERRA ASHOK
21	13911A0215	GARIGE SRUJAN
22	13911A0217	GUDIPUDI KIRAN KUMAR
23	13911A0218	IRUKULLA REVANTH
24	13911A0221	K SRILEKHA
25	13911A0222	KACHAKAYALA VAMSHI KRISHNA
26	13911A0235	MANTRI AJAY KUMAR
27	13911A0236	MARATI SAIKIRAN
28	13911A0237	MIDDALA SRISAILAM REDDY
29	13911A0238	MUKESH SINGH
30	13911A0239	MUSTYALA KOUSHIK
31	14915A0214	GUGULOTH BHARATH

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25	13911A0236	MARATI SAIKIRAN
26	13911A0237	MIDDALA SRISAILAM REDDY
27	13911A0238	MUKESH SINGH

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