

3.3.2 Details of Workshops/Semlnars conducted on Intellectual Property Rights (IPR), Research Methodology, Entrepreneurship and Skill Development during the year 2022- 23 A.Y				
S.NO	department	Name of the Workshop/ Seminar	Number of Participants	Date (From - To)
1	MBA	World Entrepreneurs day celebration	100	21-08-2022
2	CE	Finishing School Program Phase I Total Station	54	07-12-2022 to 08-12-2022
3	EEE	One Day Guest Lecture on "Design and Testing of converters for renewable energy systems"	60	17-09-2022
4	EEE	One Day Guest Lecture on "Recent trends in Design and Control of Electric Vehicles"	110	21-10-2022
5	EEE	3 day hybrid workshop on EV Technology – Hands on Experience	120	21-12-2022 to 23-12-2022
6	EEE	3 day workshop on "Application of Arduino & ESP 32 Micro Controller in Multidisciplinary Engineering	90	15-03-2023 to 17-03-2023
7	EEE	CEMS Phase -I-Basics of Power Systems	61	06-08-2022 to 24-12-2022
8	EEE	CEMS Phase -III Industrial Automation	34	06-08-2022 to 24-12-2022
9	EEE	CEMS Phase -II-Basics of Induction Motors	69	24-12-2022 to 27-05-2023
10	EEE	CEMS Phase -IV Industril IOT	30	24-12-2022 to 27-05-2023
11	EEE	SOC-Mat lab	72	22-08-2022 tp 03-12-2022
12	EEE	SOC-PLC	69	16-01-2023 to 29-03-2023
13	ME	Three Day -FDP On Research Article Writing and Recent Trends in Mechanical Engineering	33	14-07-2022 to 16-07-2022
14	ME	Two –Day Workshop on Drone Technology	89	03-11-2022 to 04-11-2022
15	ME	3 - Day Online Faculty Development Program on Emerging Trends in Mechanical Engineering	80	22-12-2022 to 24-12-2022
16	ME	Guest Lecture on Electric Vehicles	46	14-03-2023
17	ME	Project Show Case'	111	16-03-2023
18	ME	Three day Workshop on 3D Printing	50	04-04-2023 to 06-04-2023
19	ME	CEMS- Phase -1- NX CAD	39	06-08-2022 to 24-12-2022
20	ME	CEMS- Phase -2- Mechatronics	45	24-12-2022 to 27-05-2022
21	ME	CEMS- Phase -3 - Product Lifecycle Management (PLM)	57	06-08-2022 to 24-12-2022
22	ME	CEMS- Phase -4- Industrial Robotics	50	24-12-2022 to 27-05-2022
23	ME	Online certification	111	-
24	ME	MOOC's SOC- III	67	-
25	ME	Technical Paper Writing	67	25-07-2022 to 12-11-2022
26	ME	Computer Aided Analysis SOC- IV	67	12-12-2022 to 01-04-2023.
27	ECE	Technical Paper Writing	120	30-08-2022
28	ECE	IoT workshop with Arduino	100	12-09-2022 to 14-09-2023
29	ECE	TechSpardha 2023	250	03-03-2023 to 04-03-2023
30	ECE	CEMS: Hands on training on Embedded system using C	135	05-03-2022 to 04-06-2022
31	ECE	CEMS: Hands on training on PCB Design	135	07-10-2022 to 20-01-2023
32	ECE	CEMS: Hands on training on PLC & SCADA	65	20-08-2022 to 20-01-2023
33	CSE	A Three Day Workshop on AWS	120	30-06-2022 to 02-07-2022
34	CSE	Career Readiness and Cracking Hackathons and Ideathons Towards Opportunities	120	27-07-2022
35	CSE(Data Science)	Online Workshop on LaTeX	90	29-09-2022
36	CSE	Python Full Stack in association with ACM Student Chapter and Brain O Vision	20	19-01-2023 to 21-01-2023
37	CSE	A Two day Workshop on Cybersecurity in association with Indian Servers	120	27-01-2023 to 28-01-2023
38	CSE	Infosys Springboard Awareness program on Online Certification	120	22-02-2023
39	CSE	Expert talk on Employability Skills & Personality Development	120	23-02-2023
40	CSE	Changing Evolution of IT	120	25-02-2023
41	S&H	Exploring the Boundaries of Intra and Interpersonal Communication Workshop	473	15-04-2023



24/12/23  
Director  
N.S. Raju Institute of Technology (A)  
Sontyam, Vijakhapatnam-531173

**NSRIT**

**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**

ESTD:2008  
(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
Recognized under Section 2(f) & 12(B) of the UGC Act, 1956 | Accredited by NAAC with 'A' Grade

**Name of the Workshop :** A Three Days Workshop on AWS

**Date :** 30-06-2022 to 02-07-2022

**Venue :** CSE Seminar Hall

**Organized by** CSI NSRIT Student Chapter in association with Brain O Vision

**Resource Person:** Mr.R.Nagendra, Trainer, Brain O Vision Solutions Pvt Ltd, Hyderabad

**Participants :** 120 students from III B.Tech CSE I Semester and faculties from CSE Dept



Student participants along with faculty from CSE during the 3 days workshop on AWS



Faculty-CSE Dept along with trainers from Brain O Vision-AWS workshop

**Name of the Workshop :** Career Readiness and Cracking Hackathons and Ideathons Towards Opportunities

**Date :** 27-07-2022

**Venue :** CSE Seminar Hall

**Organized by** CSI NSRIT Student Chapter

**Resource Person:** Dr.P.E.S.N.Krishna Prasad, Professor, HOD CSE, ANITS Visakhapatnam

**Participants :** Prefinal year students from CSE/CSM/CSD



Prefinal Year students from CSE/CSM/CSD during the session on Career Readiness and Cracking Hackathons and Ideathons Towards Opportunities by Dr. Krishna Prasad

**Name of the Workshop :** Online Workshop on LaTeX

**Date :** 29-09-2022

**Venue :** Virtual Mode

**Organized by** Dept of CSE(Data Science)

**Resource Person:** Mr.P.Muralidhara Rao,Asst.Prof, Dept of Computational Intelligence, School of CSE,VIT University, Vellore

**Participants :** Prefinal year students from CSE/CSM/CSD



Brochure of the workshop



Mr.P.Muralidhara Rao Online workshop on LaTeX through Zoom



Presentation of online session of LaTeX

**Name of the Workshop :** A Three Day FDP on Python Full Stack – Online Mode

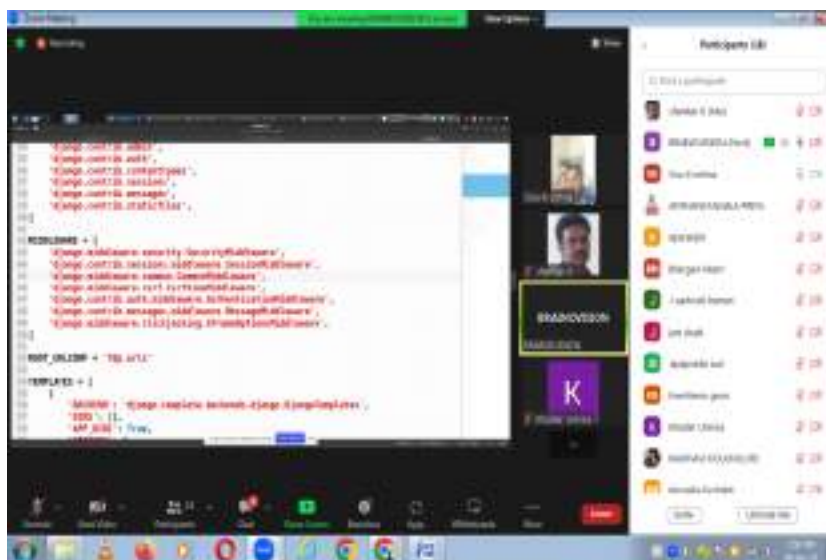
**Date :** 19-01-2023 to 21-01-2023

**Venue :** Virtual Mode - Zoom

**Organized by** CSI SB, ACM Student Chapter and Brain O Vision Solutions Pvt Ltd, Hyderabad

**Resource Person:** Mr.B.Vijay Kumar, Trainer, Brain O Vision Solutions Pvt Ltd, Hyderabad

**Participants :** HOD-CSE and faculties from Dept of CSE



Participants attending FDP on Python Full Stack in Zoom platform

**Name of the Workshop :** A Two Day Workshop on Cyber Security

**Date :** 27-01-2023 to 28-01-2023

**Venue :** CSE Seminar Hall

**Organized by** Computer Society of India (CSI), ACM in association with Indian Servers

**Resource Person:** Mr.Sai Satish, Founder and CEO, Indian Servers

**Participants :** 120 students from II B.Tech CSE II Semester and faculty from CSE department



Brochure of Cyber Security Workshop



Mr.Sai Satish taking session on 27-01-2023



Participants at Cyber Security Workshop



Dr.R.Srinivas, HOD CSE and Mr.K.Shankar-Coordinator presenting memento to Mr.Sai Satish

**Name of the Workshop :** Pen to Paper : Writing Technical Research Papers

**Date :** 04-02-2023

**Venue :** CSE Seminar Hall

**Organized by :** Dept of CSE, Computer Society of India (CSI) and ACM

**Resource Person:** Dr. Shanmukh Srinivas, Prof, CSE Dept, GITAM University, Visakhapatnam

**Participants :** 120 students from II B.Tech CSE II Semester and CSE department faculty



Brochure



Dr. Shanmukh Srinivas addressing the session



Dr. Srinivas addressing student queries



Student engaged with hands on session during the workshop

**Name of the Workshop :** Infosys Springboard Awareness Program on Online Certifications

**Date :** 22-02-2023

**Venue :** CSE Seminar Hall

**Organized by :** Dept of CSE, Computer Society of India (CSI) and ACM

**Resource Person:** Mr.Satyam, Senior Software Engineer, Infosys Bangalore

**Participants :** 120 students from III B.Tech CSE II Semester and CSE department faculty



Students participation at Infosys Springboard Awareness Program on Online Certification



Mr.Satyam,Sr.Software Engineer, Infosys addressing student query



Infosys Springboard Awareness Program on Online Certification on 22-02-2023 at CSE Seminar Hall



**Name of the Workshop :** Expert talk on Employability Skills & Personality Development

**Date :** 23-02-2023

**Venue :** CSE Seminar Hall

**Organized by :** Dept of CSE, Computer Society of India (CSI) and ACM

**Resource Person:** Dr. S.V.Ramana, Asst.Prof, GVPCE(A), Visakhapatnam

**Participants :** 120 students from III B.Tech CSE II Semester and CSE department faculty



Brochure



Dr.Ramana delivering session



Student Participants at the Employability Skills and Personality Development Expert Talk on Feb 23<sup>rd</sup> 2023 at CSE Seminar Hall

**Name of the Workshop :** Expert talk Changing evolution of IT

**Date :** 25-02-2023

**Venue :** CSE Seminar Hall

**Organized by :** Dept of CSE, Computer Society of India (CSI) and ACM

**Resource Person:** Mr.I.Prasanna Kumar, DEVOPS Consultant, RSS Solutions, Hyderabad

**Participants :** 120 students from III B.Tech CSE II Semester and CSE department faculty



Brochure



CSE Students participating in the session



Mr.I.Prasanna Kumar addressing the session



Report on the **Webinar on Battery Thermal Management System**

Topic: **Battery Thermal Management System**

Purpose: To enhance the Skills of Faculty and Student members.

Conducted by: Department of Mechanical Engineering

Submitted by: Dr. P.N.E. Naveen, Assoc. Prof and HOD.

Date and time: Saturday, 12.03.2022 Time: 03:00p.m.– 4:30 p.m.

Participants: 41 members attended

Attendance Screen Shots:







Conclusion:

In this webinar the resource person mainly focused on Battery and Management System, applications and how it is useful to the Mechanical Systems.

Sincere thanks to the Management, Director and Principal for giving us an opportunity to conduct this webinar and help the students to get awareness this.



Dr. P.N.E. Naveen,  
Assoc. Prof & HOD.

Report on the **Webinar on 3D Printer**

Topic: **3D Printer**

Purpose: To enhance the Skills of Faculty and Student members.

Conducted by: Department of Mechanical Engineering

Submitted by: Dr. P.N.E. Naveen, Assoc. Prof and HOD.

Date and time: March. 25, 2022 Time: 10:00 a.m.– 12:30 p.m.

Participants: 45 members attended

Attendance Screen Shots:







Conclusion:

In this webinar the resource person mainly focused on 3 D Printer, applications and how it is useful to the Mechanical applications.

Sincere thanks to the Management, Director and Principal for giving us an opportunity to conduct this webinar and help the students to get awareness this.



Dr. P.N.E. Naveen,  
Assoc. Prof & HOD.



Report on the **Non Destructive Testing (NDT)**

Topic: **NDT**

Purpose: To enhance the Skills of Students.

Conducted by: Department of Mechanical Engineering

Submitted by: Dr. P.N.E. Naveen, Assoc. Prof and HOD.

Date and time: April. 07, 2022 Time: 10:30 a.m.– 12:30 p.m.

Participants: 56 members attended

Attendance Screen Shots:

The poster features a blue background with a hand holding a mechanical part. Text includes: NSRIT logo, Department of Mechanical Engineering, In Association with BITS NDT, Vizag, Student Development Program on NDT (NON-DESTRUCTIVE TESTING), Speaker: BALAKRISHNA, QC INSPECTOR, Date: April. 07, 2022 @10:30 am Onwards, ASME logo, and SAE INDIA Society of Automotive Engineers INDIA logo.



Conclusion:

In this Student Development Program (SDP) the resource person mainly focused on Non Destructive Testing (NDT), applications, methods and how it is useful to the Mechanical applications.

Sincere thanks to the Management, Director and Principal for giving us an opportunity to conduct this SDP and help the students to get awareness in this.

  
Head of the Department  
Mechanical Engineering  
N.S. Raju Institute of Technology (A)  
Visakhapatnam-531173

Dr. P.N.E. Naveen,  
Assoc. Prof & HOD.

Report on the **Three-day FDP on “Research Article Writing and Recent Trends in Mechanical Engineering” from 14-16 July, 2022**

**Topic:** Research Article Writing and Recent Trends in Mechanical Engineering

**Purpose:** To enhance the paper writing skills in disciplinary and interdisciplinary fields for the faculty members. To gain knowledge on 3D printing and its applications in current fields.

**Conducted by:** Department of Mechanical Engineering

**Submitted by:** Dr. Pallavi, Assistant. Prof and Dr. Raghu Ram Mohan Reddy, Convener 3-Day FDP on Article Writing and Recent Trends in Mechanical Engineering.

**Date and time:** 14<sup>th</sup> July 2022 Time- 2:30 p.m.-4:30 p.m., 15<sup>th</sup> July 2022 Time- 2:30 p.m.-4:30 p.m. and 16<sup>th</sup> of July 2022 Time: 11:00 a.m.– 1:00 p.m.

**Participants:** 33 participants on Day-1, 29 participants on Day-2 and 30 participants on Day-3.

**Day-1 Screen Shots:**



Zoom Meeting | 45 Minutes | This is a meeting that has been recorded | View Options

Participants: 26

Y. Shrawan Kumar 820-363 sanya

**Production Mold**

Participants (26):

- HOD - MC, WIRI000 - CHA (PA)
- Vijay Venkatesh (PA)
- A20-201 - ADARSH MOHAMMAD
- Adithyan Subrah
- 820-303 Taran
- 820-307 Subhraj
- 820-363 Sanya
- 820-371 Vinay
- 820-373 Vinaysh
- 820-388 Lakshya
- Rishabh Sankar
- Satish Venkatesh Subrah
- MAHAR Kulkarni
- Divakar

Zoom Meeting | 45 Minutes | This is a meeting that has been recorded | View Options

Participants: 12

Y. Shrawan Kumar 820-363 sanya

**The future of manufacturing is digital.**

Participants (12):

- HOD - MC, WIRI000 - CHA (PA)
- Vijay Venkatesh (PA)
- A20-201 - ADARSH MOHAMMAD
- Adithyan Subrah
- 820-303 Taran
- 820-307 Subhraj
- 820-363 Sanya
- 820-371 Vinay
- 820-373 Vinaysh
- 820-388 Lakshya
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- MAHAR Kulkarni
- Divakar

Zoom Meeting | 45 Minutes | This is a meeting that has been recorded | View Options

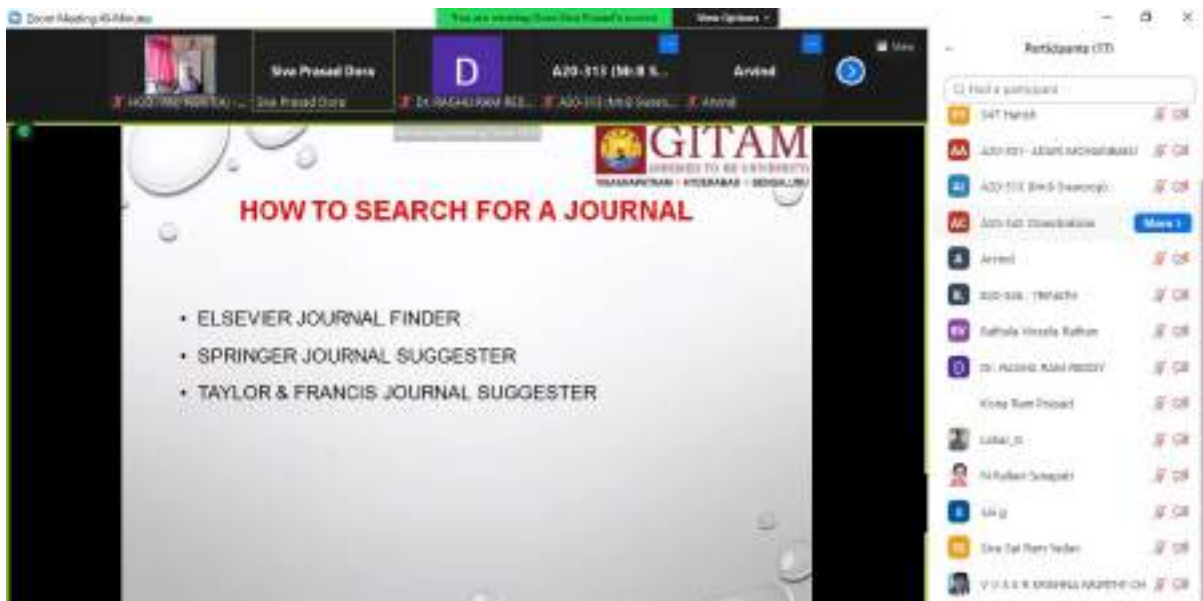
Participants: 5

Y. Shrawan Kumar 820-371 Vinay 820-363 sanya Dr. Rajha

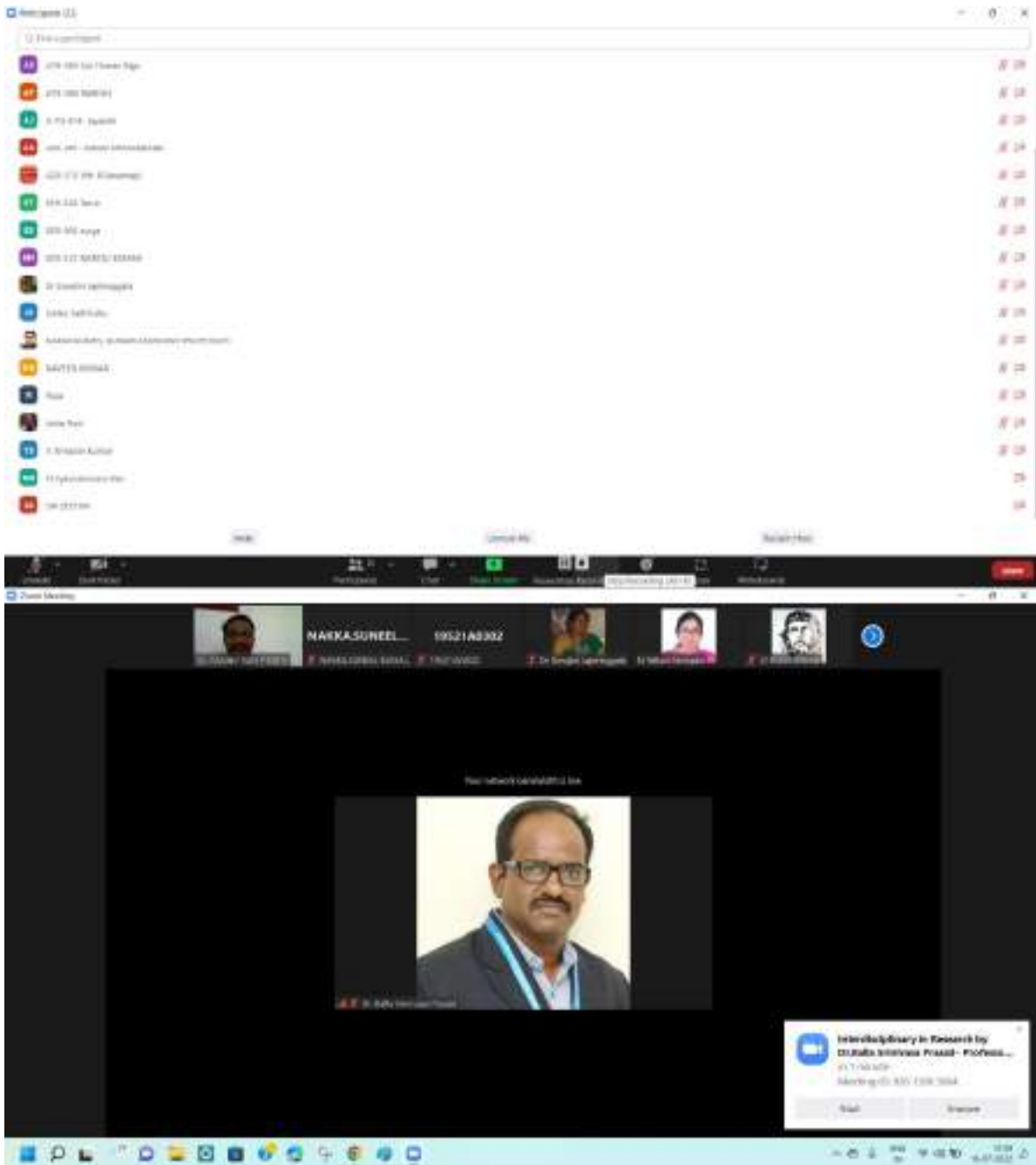
Participants (5):

- HOD - MC, WIRI000 - CHA (PA)
- Vijay Venkatesh (PA)
- 820-371 Vinay
- 820-363 Sanya
- Dr. Rajha





**Day 3 Screen Shots:**





**Case studies\_ VLSI/Digital Signal Conditioning, MD & MTA**

**Adaptive Controller Design for CNC Milling**

**Condition Monitoring using Infrared Thermography in Turning**

Figure 11.12: CNC lathe in a laboratory. The shop with multiple centers in NITD, Hyderabad, India.

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**NSRIT NADUPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY**

**Topic : Interdisciplinarity in Research**

**Topics for Today's session:**

- ✓Interaction
- ✓About Research
- ✓Session Objectives
- ✓Session outcomes
- ✓Interdisciplinarity in Research
- ✓Multidisciplinary research

**Dr. Balla Srinivasa Prasad**  
Professor in Dept. of Mechanical Engineering  
GIT, GITAM Deemed University  
Visakhapatnam - 530045  
Email: sballa@gitam.edu/9848321070

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**D**

**Dr. Balla Srinivasa Prasad**

**Dr. Balla Srinivasa Prasad**

**826-363 surya**

**SAI SEETHA**

## **Conclusion:**

In this Faculty Development Program (FDP), on the first day that is on 14-07-2022, the resource person mainly focused on basics of 3D printing, its use in the current fields and entrepreneurship. The use of 3D printing in medical, fashion industry, physiotherapy has been well explained. On day-2 15-07-2022, the resource person explained about the journal metrics and databases. The SCI, Scopus and Web of Science indexed journals; importance of impact factor, H-index and number of citations has been well explained. On the day-3, the resource person explained about interdisciplinary in research where different disciplines can be combined, different methods can be implemented for effective research has been explained in detail.

Sincere thanks to the Management, Director and Principal for giving us an opportunity to conduct this FDP and help the students to get awareness in this.

Dr. Pallavi, Assistant. Prof  
Dr. Raghu Ram Mohan Reddy,  
Convener.  
FDP  
ME - NSRIT





## Department of Mechanical Engineering

### Three-Day FDP Schedule (14-16 July, 2022)

	Time	Resource Person	Topic
<b>Day – 1 (14-07-2022)</b>	02:30 pm to 04:30 pm	Mr. Vijay Raghav Varada, CEO and Founder of Fracktal Works, Bengaluru	3D Printing
<b>Day – 2 (15-07-2022)</b>	02:30 pm to 04:30 pm	Dr. D. Siva Prasad, Professor, Dept. of Mechanical Engineering, GITAM University, VSP	Journal Metrics and Databases
<b>Day – 2 (16-07-2022)</b>	10:30 am to 12:30 am	Prof. Balla Srinivasa Prasad, Dept. of Mechanical Engineering, GITAM University, VSP	Interdisciplinary in Research

**Note:** Through online mode.

### About the College

Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT) was established by Sree Veera Venkata Satyanarayana Educational Society in the year 2008. NSRIT offers quality education and technical competencies with the strong foundation of values, ideals and rich culture to the students across the country and beyond. NSRIT has been recognized under section 2(f) & 12 (B) of the UGC Act, 1956 and conferred with 'A' grade by NAAC with CGPA of 3.10/4.00.

### About the Department

The Department of Mechanical Engineering was formed in the year 2008. The Department has started B. Tech Programme with an initial intake of 60 in the year 2008 and 120 from 2010. The department has 24 qualified teaching staff with 05PhD's. The faculty members are involved in research activities and published/presented papers in national and international journals and conferences.

### Theme of FDP

The Theme of the FDP on Research Article Writing and Recent Trends in Mechanical Engineering gives a conceptual idea about recent technologies in additive manufacturing field that constructs a three-dimensional object from a CAD model or a digital 3D model. Additive manufacturing enables the fabrication of structurally complex components without using a mold, which significantly improves production efficiency and manufacturing flexibility and how to write a research article. The article publication in a reputed journal is mandate based on metrics.

### CHIEF PATRON

Sri N. Satyanarayana Raju, President, NSRIT

### PATRONS

Dr. N. Prasada Raju, Secretary, NSRIT

Sri. N. Kanaka Raju, Treasurer, NSRIT

Dr. M. A. Khadar Baba. Principal, NSRIT

Dr. J. Raja Muruga Doss, Director, NSRIT

### CONVENER

Dr. P. N.E. Naveen, Associate Professor, HOD, ME

### CO CONVENER

Dr. K. Raghuram Mohan Reddy, Professor, ME

Dr. N. Pallavi Senapati, Assistant Professor, ME

### ORGANIZING COMMITTEE:

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Mrs. B. Usha Rani, Assistant Professor

Mr. B. Ramanjaneyulu, Assistant Professor

Mr. N. Suneel Kumar, Assistant Professor

Mr. T.T.V.S.R. Krishna Kumar, Assistant Professor

Mr. Ch.V.V.S.S.R.K. Murthy, Assistant Professor

Mr. K. Abhinash, Assistant Professor

Mr. G. Siva Sai Ram, Assistant Professor

Mr. Surya Kanth, Assistant Professor

### Resource Persons:

#### Day 1:

Mr. Vijay Raghav Varada, CEO and Founder

Fracktal works, Bangalore

#### Day 2:

Dr. D. Siva Prasad, Professor, Mechanical Engineering Department, GITAM University, VSP

#### Day 3:

Prof. Balla Srinivasa Prasad, Mechanical Engineering Department, GITAM University, VSP



### Registration Link:

<https://forms.gle/EjDLsQaJihgeDD386>

## Three Day -FDP On

## Research Article Writing and Recent Trends in Mechanical Engineering

14-16<sup>th</sup> July-2022



Autonomous

Organized by  
Department of Mechanical  
Engineering

In  
Association with



NADIMPALLI SATYANARAYANA  
RAJU INSTITUTE OF TECHNOLOGY  
Sontyam, Pendurthi,  
Anandapuram Highway,  
Visakhapatnam - 531173, Andhra Pradesh, India.

TWO DAY WORKSHOP ON

# DRONE TECHNOLOGY



ORGANISED BY

**Department of Mechanical Engineering**

November 03-04, 2022

**NSRIT**

Autonomous



## Vision

- To train the students to be professional and competent Mechanical Engineers to take up the challenges in the society and strive continuously for excellence in education and research



## Mission

- To provide quality education for successful career and higher studies in Mechanical Engineering
- To emphasize academic and technical excellence in the profession
- To take up consultancy and research in solving the problems related to Mechanical Engineering

## PROGRAM EDUCATIONAL OBJECTIVE (PEOs)

The PEOs are the educational goals that reflect Professional and Career Accomplishments that a graduate should attain after 4 – 5 years of his/her graduation.

The graduates of Mechanical Engineering of NSRIT will

1. PEO #1: Continue to excel in professional mechanical related careers or chosen career path that apply 21 st century skills following ethical standards and practices contributing towards sustainable development by providing feasible and viable technical solutions catering the real-time engineering problems
2. PEO #2: Engage in experiential learning through their professional practices and adapt to changing skills sets in the pursuit of lifelong learning
3. PEO #3: Continue to demonstrate the skill sets that are very much essential to work successfully for a rewarding career in a multidisciplinary setting

# What is a Drone ?

A drone is an unmanned aircraft. Drones are more formally known as unmanned aerial vehicles (UAVs) or unmanned aircraft systems. Essentially, a drone is a flying robot that can be remotely controlled or fly autonomously using software-controlled flight plans in its embedded systems, that work in conjunction with onboard sensors and a global positioning system (GPS).

## How do drones work?

Drones have two basic functions: flight mode and navigation.

To fly, drones must have a power source, such as battery or fuel. They also have rotors, propellers and a frame. The frame of a drone is typically made of a lightweight, composite material to reduce weight and increase maneuverability.

Drones require a controller, which lets the operator use remote controls to launch, navigate and land the aircraft. Controllers communicate with the drone using radio waves, such as Wi-Fi.

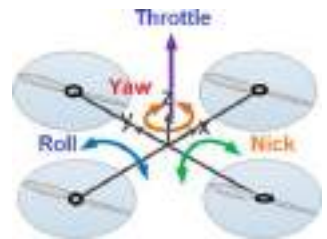
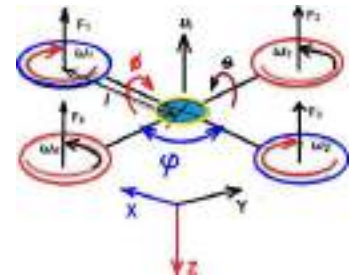
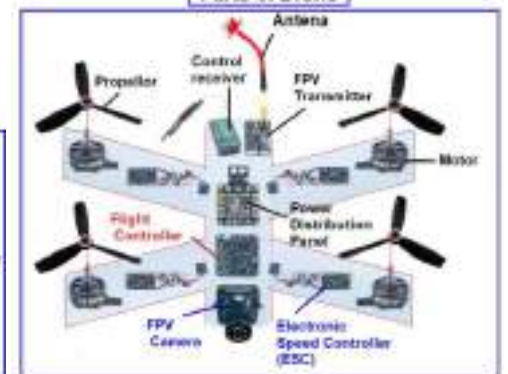
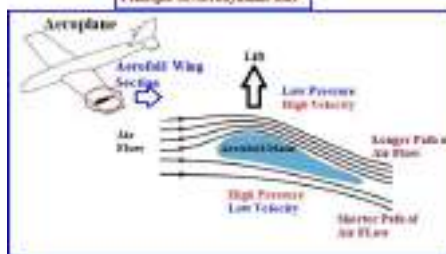
## What types of drones are available?

There are two main types of drone platforms:

rotor, including single-rotor and multi-rotor, such as tricopters, quadcopters, hexacopters and octocopters; and fixed-wing, which include the hybrid vertical takeoff and landing (VTOL) drones that don't require runways.

Nonmilitary drones are generally either personal and hobbyist ones or commercial aircraft.

## Why use drones?



## CHIEF PATRON

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PRESIDENT, NSRIT

## PATRONS

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SHRI. N. KANAKA RAJU, TREASURER, NSRIT

DR. M. A. KHADAR BABA, PRINCIPAL, NSRIT

DR. J. RAJA MURUGADOSS, DIRECTOR, NSRIT

## ORGANISING COMMITTEE

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ASSOCIATE PROFESSOR

MR. N. SUNEEL KUMAR  
ASSISTANT PROFESSOR

MR. T.T.V.S.R. KRISHNA KUMAR  
ASSISTANT PROFESSOR

MR. CH.V.V.S.S.R.K. MURTHY  
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MR. P. SAI RADHA KRISHNA  
ASSISTANT PROFESSOR

MR. S. SANYASI RAO  
ASSISTANT PROFESSOR

## CONTACT US

 [www.nsr.it.edu.in](http://www.nsr.it.edu.in)



TWO DAY WORKSHOP ON

# Drone Technology

03-04, November 2022

# NSRIT

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ORGANISED BY

**Department of Mechanical  
Engineering**

In Association with

**Yamini infinity Drones,  
Visakhapatnam**

Collaboration with



## CONVENOR

DR. P.N.E. NAVEEN

Head of the Department

## COORDINATORS

MRS. B. USHA RANI

Sr. Assistant Professor

MR. K. RAM PRASAD

Assistant Professor

A Report on  
Two –Day Workshop on Drone Technology  
for II<sup>nd</sup> & III<sup>rd</sup> year B.Tech Mechanical Students

**Convener:**

Dr. P.N.E Naveen, Assoc .Professor, HOD

**Coordinator:**

Mrs. B. Usha Rani, Sr. Asst. Professor

Mr. K. Ram Prasad, Asst. Professor

**Resource Person:**

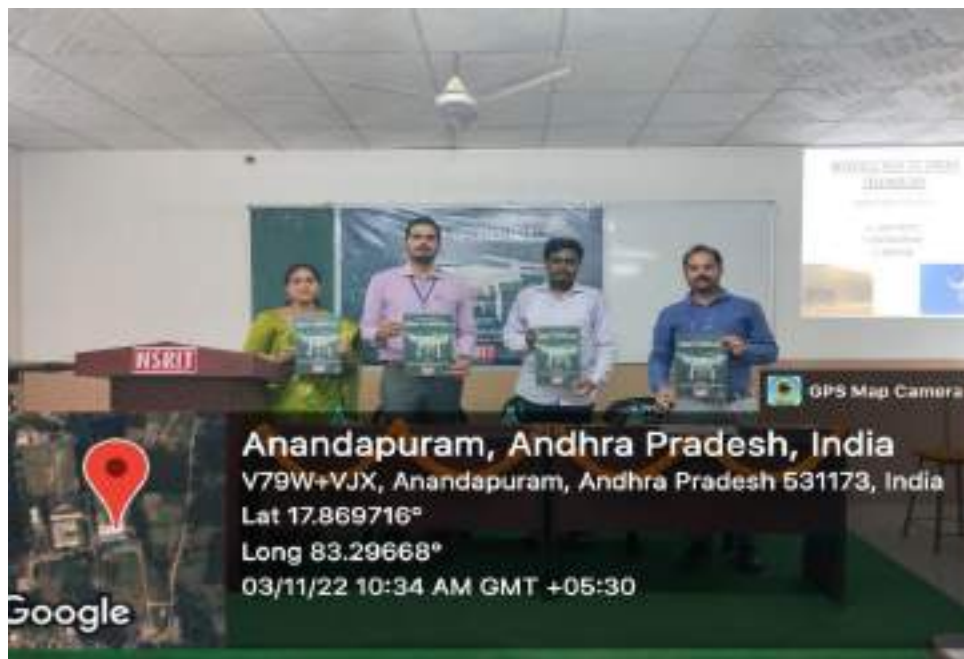
Mr. Likith Reddy

Yamini Infinity Drone, Visakhapatnam

**Organized & Managed By:**

Department of Mechanical Engineering ,  
NSRIT Engineering College , Sontyam

Date: 03<sup>rd</sup> & 4<sup>th</sup> November, 2022





## Introduction:

Department of Mechanical engineering from NSRIT Engineering College arranged Two day Workshop for V<sup>th</sup> & III<sup>rd</sup> Semester students on “**Drone Technology** “ dated 03<sup>rd</sup> & 4<sup>th</sup> November, 2022 for better technical knowledge enhancement of students.

Workshop is important especially important in the field of Engineering as the practice of engineering has an inherent (and unavoidable) impact on society. These programs can be a powerful tool to constitute a positive industrial climate and can range from basic manufacturing system programs for students. Overall, the aim of all these visit to trains the students to adapting to changing scenario of technology. After Workshop students can identify their own efficiency and performance which important for their career, improving work efficiency and confidence.

## Purpose:

Workshop are an integral part of Engineering and acknowledgment of technological up gradation. The purpose of Workshop for students is to provide technical knowledge with the rom technically manning sensitive military areas to luring hobbyists throughout the world, drone technology has developed and prospered in the last few years. Individuals, commercial entities, and governments have come to realize that drones have multiple uses Drones are small remotely controlled aerial vehicles, **i.e.**, they are unmanned aerial vehicles. They look like helicopters or reconnaissance aircraft and, without a doubt, one of their strengths is the many different applications for which they can be used.





### What We Learn? :•

03<sup>rd</sup> & 4<sup>th</sup> November, 2022 learnt Drones are unmanned aerial vehicle. Drones are kind of air vehicle which fly without any actual pilot or crew on board. So, it is often referred as unpiloted aircraft. UAV (Unmanned Aerial Vehicle) are made up of light composite materials which reduce their weight and increase their strength and maneuverability. Initially drones were only used by military. Now it is used by many professional and individuals. Drones are used in various fields. Areas in which drones can be used are construction, defense, photography, marketing, delivery, agriculture, rescue, entertainment etc.





## Conclusion:•

From this Workshop, we got the information and practical knowledge about Drone Assembly, Kinematic involved and Battery thermal Management System in Drone Technology . They got the idea how Kinematic system works are made in Technology and it's GPS Process.

**About 89 students of V<sup>st</sup> & IV<sup>th</sup> Semester Mechanical Engineering Students of NSRIT Engineering College, & faculty members benefited from this Workshop as they got chance to discussion with Resource Person. Students were eagerly to say organizing this type of Workshop for practical exposure which is shows the success.**

### Program Outcomes (POs)

PO Addressed		Weightage
PO1	Engineering Knowledge	3
PO2	Problem Analysis	1
PO3	Design/Development of Solutions	3
PO4	Investigation of Complex Problems	1
PO5	Modern Tool Usage	3
PO6	The Engineer and Society	3
PO7	The Environment and Sustainability	2
PO8	Ethics	2
PO9	Individual and Team Work	3
PO10	Communication	2
PO11	Project Finance and Management	2
Po12	Life Long Learning	3
PSO 1	Demonstrate adequate core competency in designing and fabricating mechanical systems thermal and hydraulic machines, materials and similar others, and thereby providing sustainable computer aided solutions maintaining professional standards and value system	3
PSO 2	Demonstrate adequate knowledge in the allied specialization of Mechanical Engineering that adds value addition for professional practices	3

  
 Head of the Department  
 Mechanical Engineering  
 N.S. Raju Institute of Technology (A)  
 Visakhapatnam-531173



Zoom Meeting | 45 Minutes | This is a meeting that has been recorded | View Options

Participants: 26

Y. Shrawan Kumar 820-363 sanya

**Production Mold**

Participants (26):

- HOD - MC, WIRI000 - CHA (PA)
- Vijay Venkatesh (PA)
- A20-201 - ADARSH MOHAMMAD
- Adithyan Subrah
- 820-303 Taran
- 820-307 Subhraj
- 820-363 Sanya
- 820-371 Vinay
- 820-373 Vinaysh
- 820-380 LOKESH
- Rambhadr Sankar
- Satish Venkatesh Subrah
- MAHAR Kulkarni
- Divakar

Zoom Meeting | 45 Minutes | This is a meeting that has been recorded | View Options

Participants: 12

Y. Shrawan Kumar 820-363 sanya

**The future of manufacturing is digital.**

Participants (12):

- HOD - MC, WIRI000 - CHA (PA)
- Vijay Venkatesh (PA)
- A20-201 - ADARSH MOHAMMAD
- Adithyan Subrah
- 820-303 Taran
- 820-307 Subhraj
- 820-363 Sanya
- 820-371 Vinay
- 820-373 Vinaysh
- 820-380 LOKESH
- Rambhadr Sankar
- Satish Venkatesh Subrah
- MAHAR Kulkarni
- Divakar

Zoom Meeting | 45 Minutes | This is a meeting that has been recorded | View Options

Participants: 5

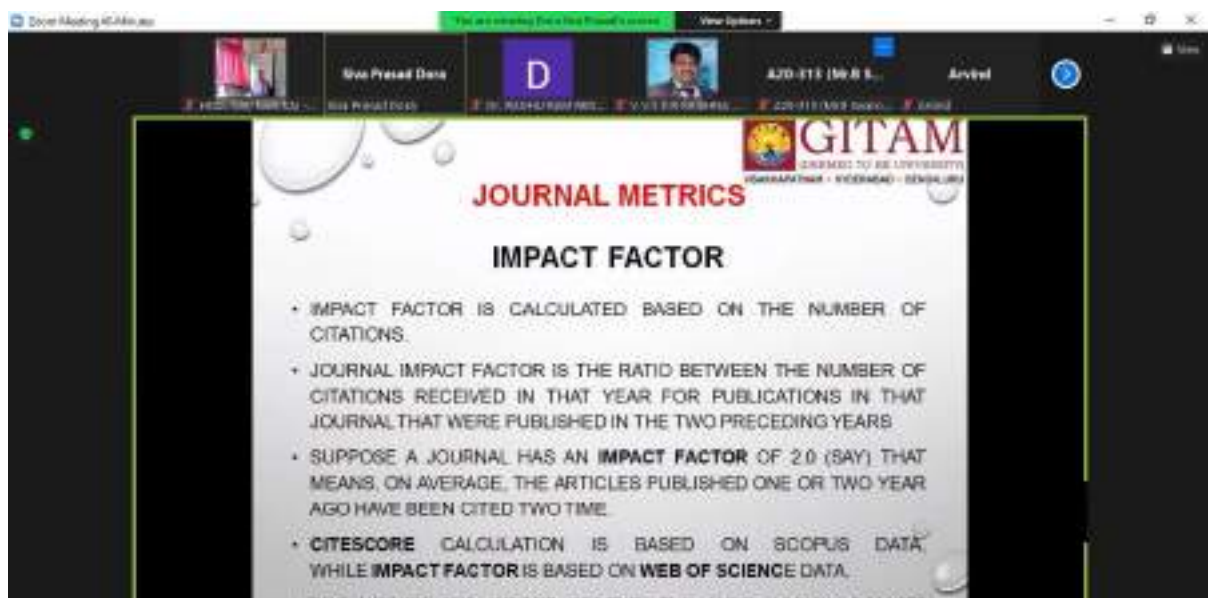
Y. Shrawan Kumar 820-371 Vinay 820-363 sanya Dr. Rajha

Participants (5):

- HOD - MC, WIRI000 - CHA (PA)
- Vijay Venkatesh (PA)
- Y. Shrawan Kumar
- 820-371 Vinay
- 820-363 Sanya
- Dr. Rajha



Day-2 Screen Shots:







**Case studies\_ VLSI/Digital Signal Conditioning, MD & MTA**

**Adaptive Controller Design for CNC Milling**

**Condition Monitoring using Infrared Thermography in Turning**

Figure 11.12: CNC Milling Process table. This step will output values in XYZ, XYZ, XYZ, XYZ, XYZ, XYZ, XYZ, XYZ.

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## Topic : Interdisciplinarity in Research

**Topics for Today's session:**

- ✓ Interaction
- ✓ About Research
- ✓ Session Objectives
- ✓ Session outcomes
- ✓ Interdisciplinarity in Research
- ✓ Multidisciplinary research

**Dr. Balla Srinivasa Prasad**  
Professor in Dept. of Mechanical Engineering  
GIT, GITAM Deemed University  
Visakhapatnam - 530045  
Email: sballa@gitam.edu/9848321070

826-363 surya

SAI SEETHA

## **Conclusion:**

In this Faculty Development Program (FDP), on the first day that is on 14-07-2022, the resource person mainly focused on basics of 3D printing, its use in the current fields and entrepreneurship. The use of 3D printing in medical, fashion industry, physiotherapy has been well explained. On day-2 15-07-2022, the resource person explained about the journal metrics and databases. The SCI, Scopus and Web of Science indexed journals; importance of impact factor, H-index and number of citations has been well explained. On the day-3, the resource person explained about interdisciplinary in research where different disciplines can be combined, different methods can be implemented for effective research has been explained in detail.

Sincere thanks to the Management, Director and Principal for giving us an opportunity to conduct this FDP and help the students to get awareness in this.

Dr. Pallavi, Assistant. Prof  
Dr. Raghu Ram Mohan Reddy,  
Convener.  
FDP

ME - NSRIT





Timestamp	Name of the Participant	Designation	Mobile No	E- mail ID	Name of the Organization	Department	<a href="https://chat.whatsapp.com/KOUNJssYR9gL7q1ZkPWl2zWhatsApp">https://chat.whatsapp.com/KOUNJssYR9gL7q1ZkPWl2zWhatsApp</a> Link		
							<a href="https://chat.whatsapp.com/BqZLstRGqHC3zy1Fvmbklf">https://chat.whatsapp.com/BqZLstRGqHC3zy1Fvmbklf</a>		
12/10/2022 14:39:53	Naveen	Associate Professor	7799104224	pne.naveen@gmail.com	Ns	Me		Ok	
12/10/2022 14:43:29	Usha Rani	Sr. Assistant Professor	+919000920131	usharani.me@nsrit.edu.in	NSRIT	Mechanical		Yes	
12/10/2022 15:42:28	RAMAKRISHNA RAVADA	Assistant Professor	9100241541	ramakrishna.r@lendi.org	Lendi INSTITUTE OF ENG	Mechanical engineering			
12/13/2022 16:46:51	SURADA SANYASIRAO	Assistant Professor	9292556602	ssraome.1@gmail.com	Vignan's Institute of Infor	Mechanical Engineering			
12/20/2022 22:55:18	V V S S R KRISHNA MU	Assistant Professor	9908266061	krishnamurthy.me@nsrit.edu.in	Nadimpalli Satyanarayan	Mechanical			
12/20/2022 22:57:48	NAKKA SUNEEL KUMAR	Assistant Professor	9666963486	nsuneel.me@nsrit.edu.in	Nadimpalli Satyanarayan	Mechanical		No	
12/20/2022 23:14:22	DEGALA RAJENDRA	Sr. Assistant Professor	8309936158	rajendra343@gmail.com	SRI PADMAVATI MAHILA	Mechanical Engineering		Thanks for ur information given to me.	
12/20/2022 23:33:58	PHANI KUMAR SIMHAD	Assistant Professor	9866701200	sphani.me@anits.edu.in	ANIL NEERUKONDA INS	MECHANICAL ENGINEERING			
12/21/2022 0:35:46	K S L SOUJANYA	Assistant Professor	9177215713	kslsoujanya.mech@gmail.com	ANITS College	Mechanical Engineering			
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12/21/2022 4:54:00	Dr. Virender Singh	Assistant Professor	8950320585	drvirendersingh.ece@nsrit.edu.in	NSRIT Visakhapatnam	ECE			
12/21/2022 6:12:30	Konari Rajasekhar	Assistant Professor	9010663282	rajasekhar.ece@nsrit.edu.in	Nadimpalli Satyanarayan	Electronics and Communication Engineering			
12/21/2022 6:20:32	D.Prathyusha	Assistant Professor	9885088255	Prathyushadogga@gmail.com	Prathyushadogga@gmail.com	Mechanical		Sir my number is not added to watsap ,please add it .	
12/21/2022 6:22:15	D.Prathyusha	Assistant Professor	9885088255	Prathyushadogga@gmail.com	Vignan's Institute of Infor	Mechanical			
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12/21/2022 6:50:18	Varada Usha Rani	Assistant Professor	07893914607	varadausha27@gmail.com	NADIMPALLI SATYANAR	EEE			
12/21/2022 7:04:31	PANDI THIMOTHY	Associate Professor	8074108290	pandi.mark123@gmail.com	Lendi Institute of Enginee	Mechanical Engineering			
12/21/2022 7:11:26	D Appanna	Assistant Professor	7981149263	appu.mechlendi@gmail.com	Lendi institute of engineer	Mechanical			
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12/21/2022 8:38:59	Dr sharma AVNS	Professor	09618191331	Sharma.avns@gmail.com	NSRIT	Dean Student Affairs			
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12/21/2022 9:45:37	Guttula Ramesh	Assistant Professor	9959569732	gramesh.mech.bvts@bvcgroup.in	Bvctis,battapalem	Mechanical			
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12/21/2022 10:08:37	NAGAPPA SUGOOR	Assistant Professor	9701128146	nagappa.mme@gmail.com	Vignan's Institute of Infor	Mechanical Engineering			
12/21/2022 10:13:49	TOTA RAKESH KUMAR	Assistant Professor	9989403950	totarakeshk@imu.ac.in	INDIAN MARITIME UNIV	MARINE ENGINEERING		Joined 3Day FDP NSRIT WhatsApp Group chat	
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12/21/2022 12:18:53	Velaga Rajeswari	Assistant Professor	8919898780	pusarilarajeswari@gmail	Sankethika institute of tec	Mechanical			
12/21/2022 12:22:44	BETHA HEMANTH	Assistant Professor	9052787165	hemanth9803@gmail.com	SANKETIKA INSTITUTE	Mechanical engineering			
12/21/2022 13:32:16	Bathula Vineela Rathan	Assistant Professor	8978971563	vineelarathan16dec@gmail.com	Chaitanya engineering Co	Mechanical			
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12/21/2022 15:37:59	G.Durga Prasad	Assistant Professor	9121735096	durgaprasad.ece@nsrit.edu.in	N S Raju Institute of Tech	Electonics and Communication Engineering (ECE)			
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12/21/2022 23:26:37	CH.Bhanusri	Assistant Professor	9704807919	bhanusri2712@gmail.com	Sanketika vidhya parishe	Mechanical Engineering			
12/22/2022 5:17:11	Meraka Sreerama	Assistant Professor	9440550149	sreerama.meraka@gmail.com	Raghu Institute of Techno	Mechanical Engineering		Yes	
12/22/2022 6:31:04	Mallela Hari Nagaraju	Sr. Assistant Professor	9908508111	mallelaharinagaraju@gmail.com	Wellfare institute of scien	Computer science and engineering			
12/22/2022 9:27:44	YELITHOTI SRAVANA KU	Assistant Professor	9000794387	sravan.ece@nsrit.edu.in	N S RAJU INSTITUTE O	Electronics and Communication Engineering			
12/22/2022 9:53:05	T T V S R KRISHNA KUM	Assistant Professor	9032570287	Krishnakumar.me@nsrit.edu.in	Nadimpalli satyanarayan	Mechanical			
12/22/2022 10:23:58	DEGALA RAJENDRA	Sr. Assistant Professor	8309936158	rajendra343@gmail.com	SRI PADMAVATI MAHILA	Mechanical Engineering			
12/22/2022 10:49:38	Dr.Seshaiah.T	Associate Professor	8143441695	seshaiah1538@gmail.com	QIS College of Engineerin	Mechanical Engineering		Yes	
12/22/2022 10:51:23	Dr VINJAMURI VENKATA	Professor	9948566975	kameshvv@gmail.com	ADITYA ENGINEERING	MECHANICAL ENGINEERING			
12/22/2022 11:20:45	Dr. N. Pallavi Senapati	Assistant Professor	9438688448	pallavi.me@nsrit.edu.in	NSRIT(A)	Dept. Of Mechanical engineering			
12/22/2022 11:31:17	VENKATAANVESH CHE	Assistant Professor	9000523017	chelluni.anvesh@gmail.com	Sanketika institute of tech	Mechanical			
12/22/2022 13:34:31	RAJAMAHANTI SURYA	Assistant Professor	9014166673	9014166673	SITAM-SANKETIKA TEC	Mechanical Engineering		Yes	
12/22/2022 15:57:29	Buddepu Pavani srivavya	Assistant Professor	09492894939	pavs.vavya@gmail.com	Vignan institute of informa	Mechanical engineering			
12/22/2022 16:17:26	Dr. K. S. Raghuram	Associate Professor	9550013119	hodmechanicals@gmail.com	Vignan's Institute of Infor	Mechanical Engineering			

Timestamp	Name of the Participant	Designation	Mobile No	E- mail ID	Name of the Organization	Department	<a href="https://chat.whatsapp.com/KOUNJssYR9gL7q1ZkPWiz2WhatsApp">https://chat.whatsapp.com/KOUNJssYR9gL7q1ZkPWiz2WhatsApp</a> Link				
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12/22/2022 20:50:47	Kumar Raja Mailapilli	Assistant Professor	9494373408	Kumarrajamme2010@gmail.com	Sanketika Vidya Parishad	Mechanical					
12/23/2022 7:03:44	PENTAKOTA AKNADH	Assistant Professor	9381171161	vpoly08m43@gmail.com	Sanketika Vidya parishad	Mechanical engineering					
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12/23/2022 15:30:04	RAJAMAHANTI SURYA H	Assistant Professor	+919014166673	rskirannaac@gmail.com	SITAM-SANKETIKA TEC	Mechanical Engineering	Yes				
12/23/2022 16:42:57	S VENKATA RAMANAJI	Assistant Professor	9866418529	venkataramanaji.ece@nsrit.edu.in	Nadimpalli satyanarayan	ECE					

  
**Head of the Department**  
**Mechanical Engineering**  
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# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY



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SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 9885824187, 8099464546, www.nsr.it.edu.in

Department of Mechanical Engineering

## A Report on

### Guest Lecture on Electric Vehicles

Department of Mechanical engineering from NSRIT Engineering College arranged a guest lecture by Dr. Sendhil Kumar Natarajan, NIT - Puducherry on Electric Vehicles for IVth & VIth Semester (B.Tech. 2<sup>nd</sup> and 3<sup>rd</sup> Year) students on date 14th March, 2023 from 2.00 P.M – 3.30 P.M at Block2 Seminar Hall. Guest Lectures helps the students to learn something new and innovate. These programs help in thinking outside the box by presenting new ideas and thoughts programs for students.

The recourse person explained about 1. The importance and applications of Electric Vehicles 2. Solar energy, solar ponds and PV cell 3. Explained how to do Projects and apply patents on these fields.

Some of the advantages of Electric Vehicles are as follows (a) No fuel required so you save money on gas (b) Environmental friendly as they do not emit pollutants (b) Lower maintenance due to an efficient electric motor.

Also explained how to do Projects and apply patents on these fields by taking two project works done under his guidance in these fields .

PO's and PSO's covered are PO1-PO12, PSO1 and PSO2



  
Head of the Department  
Mechanical Engineering  
N.S. Raju Institute of Technology (A)  
Visakhapatnam-531173

# THREE DAY WORKSHOP ON 3 D PRINTING

## Speaker :

Dr M V A Raju Bahubalendruni  
National Institute of Technology,  
Puducherry

## Convenor :

Dr P.N.E. Naveen  
Head of the Department

## Coordinator :

Mr. K. Ramprasad  
Mr. T. Krishna Kumar

ORGANISED BY

Department of Mechanical Engineering

APRIL 04-06, 2023

**NSRIT**

Autonomous



## Vision

- To train the students to be professional and competent Mechanical Engineers to take up the challenges in the society and strive continuously for excellence in education and research



## Mission

- To provide quality education for successful career and higher studies in Mechanical Engineering
- To emphasize academic and technical excellence in the profession
- To take up consultancy and research in solving the problems related to Mechanical Engineering

## PROGRAM EDUCATIONAL OBJECTIVE (PEOs)

The PEOs are the educational goals that reflect Professional and Career Accomplishments that a graduate should attain after 4 – 5 years of his/her graduation.

The graduates of Mechanical Engineering of NSRIT will

1. PEO #1: Continue to excel in professional mechanical related careers or chosen career path that apply 21 st century skills following ethical standards and practices contributing towards sustainable development by providing feasible and viable technical solutions catering the real-time engineering problems
2. PEO #2: Engage in experiential learning through their professional practices and adapt to changing skills sets in the pursuit of lifelong learning
3. PEO #3: Continue to demonstrate the skill sets that are very much essential to work successfully for a rewarding career in a multidisciplinary setting

# What is 3D Printing ?

3D printing or additive manufacturing is a process of making three dimensional solid objects from a digital file.

## How Does 3D Printing Work?

It all starts with a 3D model. You can opt to create one from the ground up or download it from a 3D library.

## Examples of 3D Printing

3D printing encompasses many forms of technologies and materials as 3D printing is being used in almost all industries you could think of. It's important to see it as a cluster of diverse industries with a myriad of different applications.

A few examples:

- ◆ – consumer products (eyewear, footwear, design, furniture)
- ◆ – industrial products (manufacturing tools, prototypes, functional end-use parts)
- ◆ – dental products
- ◆ – prosthetics
- ◆ – architectural scale models & maquettes

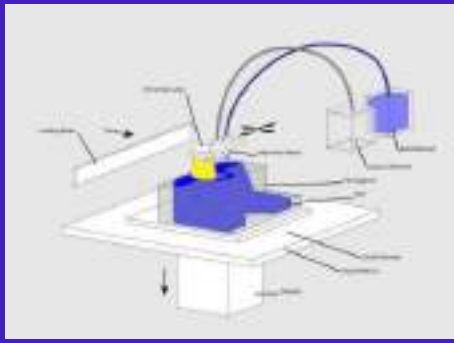
## Types of 3D Printing Technologies and Processes

The American Society for Testing and Materials (ASTM), developed a set of standards that classify additive manufacturing processes into 7 categories. These are:

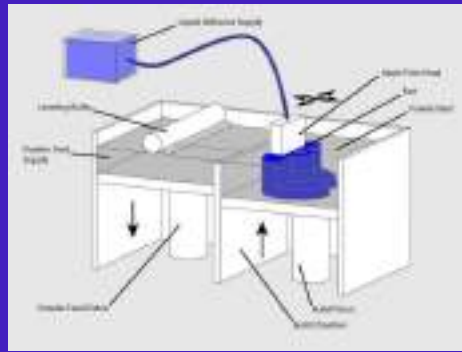
1. Vat Photopolymerisation
  - a. Stereolithography (SLA)
  - b. Digital Light Processing (DLP)
  - c. Continuous Liquid Interface Production (CLIP)
2. Material Jetting
3. Binder Jetting
4. Material Extrusion
  - a. Fused Deposition Modeling (FDM)
  - b. Fused Filament Fabrication (FFF)
5. Powder Bed Fusion
  - a. Multi Jet Fusion (MJF)
  - b. Selective Laser Sintering (SLS)
  - c. Direct Metal Laser Sintering (DMLS)
6. Sheet Lamination
7. Directed Energy Deposition



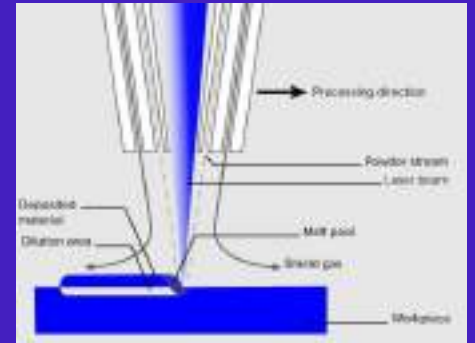
3 D Printer



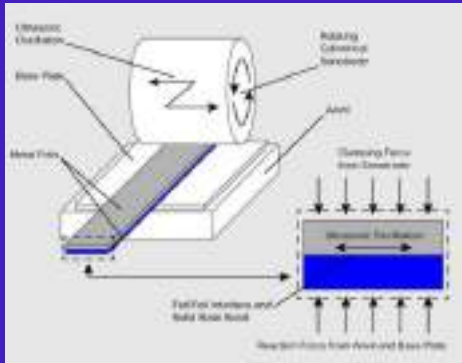
**Material Jetting**



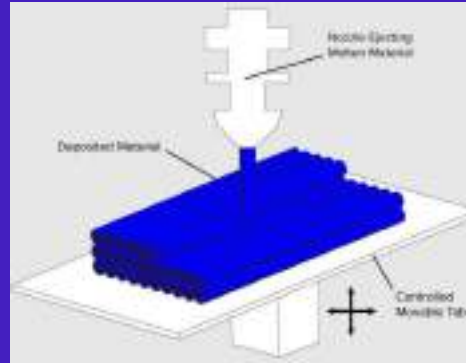
**Binder Jetting**



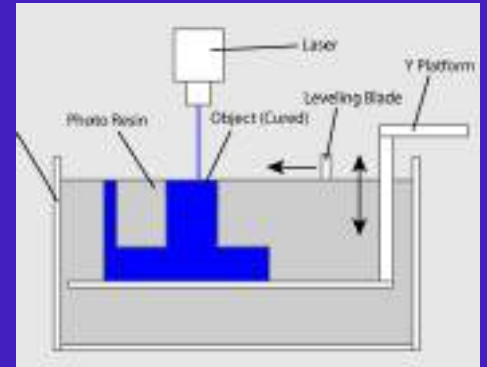
**Directed energy Deposition**



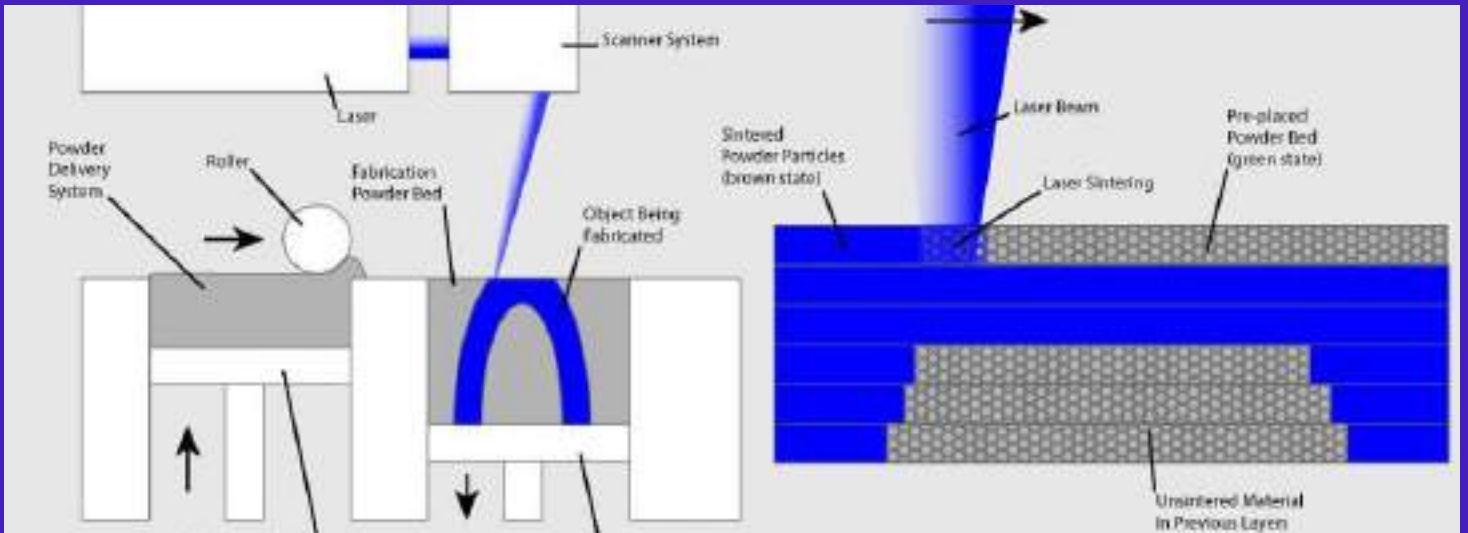
**Sheet Lamination**



**Fused Deposition Modeling**



**VAT Photopolymerisation**



**Selective laser sintering**

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## Department of Mechanical Engineering

### Three Day workshop on 3D Printing Program Schedule (APRIL 04-06, 2023)

#### Day -1:

##### Morning session

- 09:00 am to 01:00pm** : **Inauguration**
- 09:30 am to 01:00pm** : Introduction to 3D Printer and Introduction to CATIA
- 01:00 pm to 02:00pm** : **Lunch**

##### Afternoon session

- 02:00 pm to 03:30pm** : Different additive manufacturing process (Online), sketching, in CATIA.

#### Day -2:

##### Morning session

- 09:30 am to 01:00pm** : Part modeling etc. in CATIA.
- 01:00 pm to 02:00pm** : **Lunch**

##### Afternoon session

- 02:00 pm to 03:30pm** : Hands on Experience of CAD Tools

#### Day -3:

##### Morning session

- 09:30 am to 01:00pm** : Introduction to 3D Printing hardware and software  
Hands on experience of 3D printing software

- 01:00 pm to 02:00pm** : **Lunch**

##### Afternoon session

- 02:00 pm to 03:00pm** : Practical on 3D Printer to make different mechanical part or article like key chain and understand how to operate machine,  
**03:00 pm to 03:30pm** : Collecting feedback, Vote of thanks, issuing of certificates to students





**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



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Department of Mechanical Engineering

**A Report on**

**THREE DAY WORKSHOP ON 3 D PRINTING  
for IInd and IIIrd year B.Tech. Mechanical Students**

Convenor :

Dr. P.N.E. Naveen  
Head of the Department

Coordinator :

Mr. Kona Ram Prasad  
Mr. T. Krishna Kumar

Resource Person

Mr. Inturi Prakash, Dynopts  
Design and Engineering Solutions Private Limited

Speaker :

Dr M V A Raju Bahubalendruni  
National Institute of Technology,  
Puducherry

Organized & Managed By:  
Department of Mechanical Engineering ,  
NSRIT Engineering College , Sontyam

APRIL 04-06, 2023

## **Introduction:**

Department of Mechanical engineering from NSRIT Engineering College arranged Three day Workshop on 3D Printing for IInd & IIIrd Year B.Tech., Mechanical Engineering students from 04th & 06th April, 2023. 3D printing or additive manufacturing is the construction of a three-dimensional object from a CAD model or a digital 3D model. It can be done in a variety of processes in which material is deposited, joined or solidified under computer control, with material being added together (such as plastics, liquids or powder grains being fused), typically layer by layer. has developed significantly and can now perform crucial roles in many applications, with the most common applications being manufacturing, medicine, architecture, custom art and design, and can vary from fully functional to purely aesthetic applications.

## **Benefits of 3D Printing**

Additive manufacturing or 3D printing has rapidly gained importance in the field of engineering due to its many benefits. Some of these benefits include enabling faster prototyping, reducing manufacturing costs, increasing product customization, and improving product quality.

Furthermore, the capabilities of 3D printing have extended beyond traditional manufacturing, with applications in renewable energy systems. 3D printing technology can be used to produce battery energy storage systems, which are essential for sustainable energy generation and distribution.

Another benefit of 3D printing is the technology's ability to produce complex geometries with high precision and accuracy. This is particularly relevant in the field of microwave engineering, where 3D printing can be used to produce components with unique properties that are difficult to achieve using traditional manufacturing methods.

At the end of this workshop the student is able to design his model in CATIA and do a prototype component by using the 3D Printing machine.

## **Purpose:**

The purpose of Workshop for students is to workshop was to enhance the caliber of students for a recent requirement in the field of Manufacturing Process and aware about 3D printing technology. 3D printing allows for the design and print of more complex designs than traditional manufacturing processes. 3D printing offers a way for students to truly connect to the subject matter by physically manipulating ready-printed teaching aids or by designing tools themselves

## **Conclusion:•**

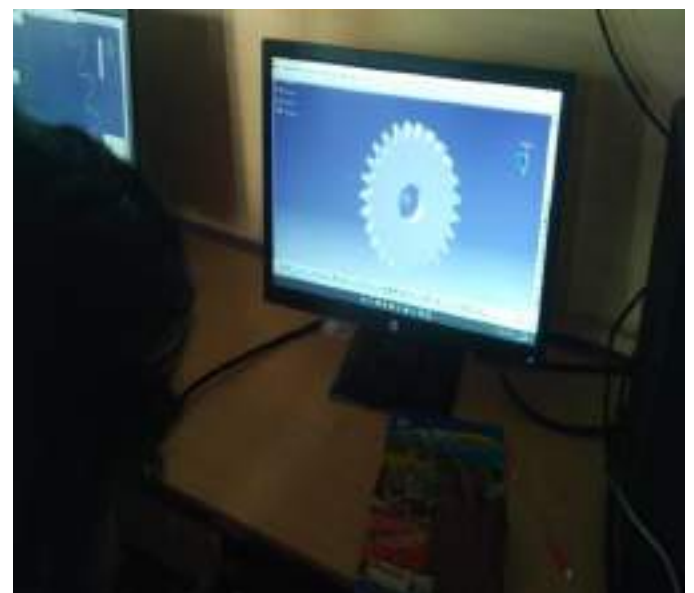
A total of 50 students have participated in this workshop and they are divided into 5 batches (5 different models and prototypes). At the end of this workshop the student is able to design their model in CATIA and do a prototype component by using the 3D Printing machine.

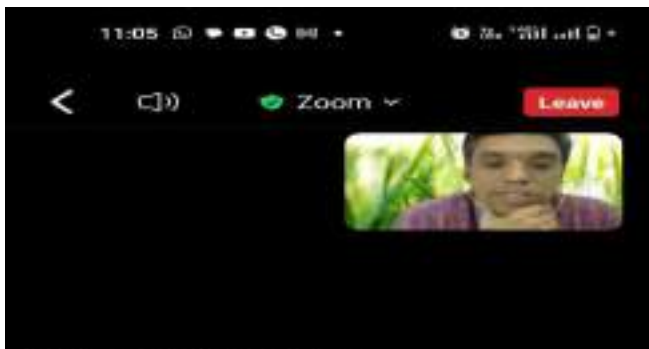
PO's and PSO's covered are PO1-PO12 and PSO1



Head of the Department  
Mechanical Engineering  
N.S. Raju Institute of Technology (A)  
Visakhapatnam-531173



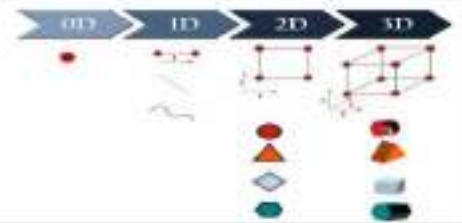




Why we should learn 3D printing



What is 3D?



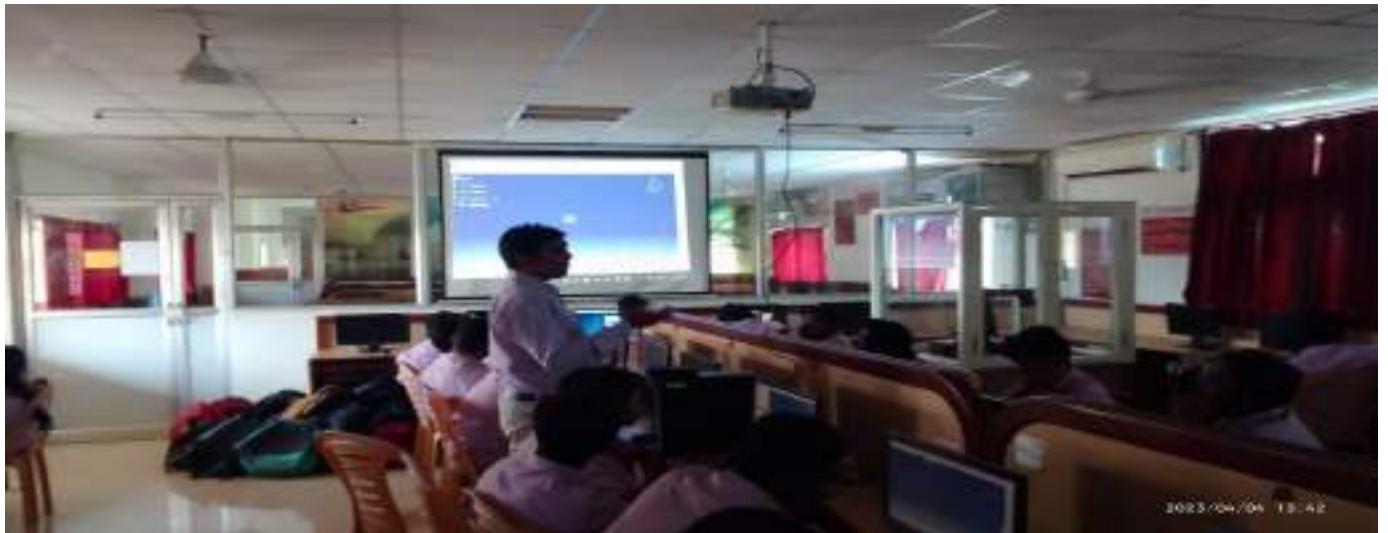
Dr. M V A Raju Bahubalendrum's screen



3D Printing From CAD Model



Solid based (FDM)







# విశాఖపట్నం

## ఎన్ఎస్ఆర్ ఇటి కళాశాలలో శ్రీడి ప్రింటింగ్ వర్క్ షాప్

విశాఖపట్నం-ఆనందపురం: మండలంలో శోభన వంటి పక్కనారాయణ రాజు ఇంజనీరింగ్ కళాశాలలో మెకానికల్ ఇంజనీరింగ్ విభాగంలో ఏప్రిల్ 4 నుండి 6వ తేదీ వరకు శ్రీడి ప్రింటింగ్ వర్క్ షాపులు జరిగాయి. ఈ కార్యక్రమంలో విభాగాధ్యక్షుడు డాక్టర్ పి ఎన్ ఈ సమీర్ ముఖ్య అతిథిగా హాజరై మాట్లాడుతూ ప్రస్తుత రోజుల్లో శ్రీ డి ప్రింటింగ్ ఉత్పత్తిని పొందాలని వివరించారు. దానికి సంబంధించిన అప్లికేషన్లు కూడా భారీగా పెరిగి అవకాశం ఉందని ముఖ్యంగా పోస్టుటల్లో మానవ అవయవాలు హాఫ్ ప్రెస్లో భాగంగా శ్రీడి ప్రింటింగ్ అత్యవసరమని, ప్రస్తుతం అది సార్వం కానప్పటికీ విశ్వాళకీ ఆభివృద్ధి చెందుతూ ఉంటుంది కాబట్టి భవిష్యత్లో డిజిటికీ మరియు డిమాండ్ పెరిగి అవకాశం ఉందని వేగం సామర్థ్యం, సరళత, రాబోయే కాలంలో డిజిటికీ అదరణ మరియు ఎక్కువగా పెరుగుతుందని తెలిపారు. కార్యక్రమంలో భాగంగా 50 మంది విద్యార్థులు పాల్గొని ఆధునికతరణమైన సైపుర్లను అభ్యసించటకు కృషి చేస్తున్నారని శిక్షణ అనుభవ ప్రకాష్ చైన్ విడిఎఫ్ ప్రైవేట్ లిమిటెడ్ డాక్టర్ ఎం రాజు బాహుబలేంద్రుడిని నేపథ్య అనిస్ట్రూట్ విశ్వాళకీ పుదుచ్చేరి ప్రత్యేకమైన ధన్యవాదాలు తెలిపారు. కార్యక్రమంలో కళాశాల డైరెక్టర్ డాక్టర్ రాజు మురుగదాస్ యాజమాన్యం ఫ్రీజర్ కనకరాజు, సెక్రటరీ డాక్టర్ ఎన్ ప్రసాద్ రాజు పాల్గొన్నారు.



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**వనాశక్తి**

3

ఉపాధి కల్పన కోసం ప్రభుత్వం చేపట్టిన ప్రాజెక్టులలో ఒకటిగా ఎన్ఎస్ఆర్ ఇంజనీరింగ్ కళాశాలలో ప్రాజెక్టును ప్రారంభించారు. ఈ కార్యక్రమంలో విభాగాధ్యక్షుడు డాక్టర్ పి ఎన్ ఈ సమీర్ ముఖ్య అతిథిగా హాజరై మాట్లాడుతూ ప్రస్తుత రోజుల్లో శ్రీ డి ప్రింటింగ్ ఉత్పత్తిని పొందాలని వివరించారు. దానికి సంబంధించిన అప్లికేషన్లు కూడా భారీగా పెరిగి అవకాశం ఉందని ముఖ్యంగా పోస్టుటల్లో మానవ అవయవాలు హాఫ్ ప్రెస్లో భాగంగా శ్రీడి ప్రింటింగ్ అత్యవసరమని, ప్రస్తుతం అది సార్వం కానప్పటికీ విశ్వాళకీ ఆభివృద్ధి చెందుతూ ఉంటుంది కాబట్టి భవిష్యత్లో డిజిటికీ మరియు డిమాండ్ పెరిగి అవకాశం ఉందని వేగం సామర్థ్యం, సరళత, రాబోయే కాలంలో డిజిటికీ అదరణ మరియు ఎక్కువగా పెరుగుతుందని తెలిపారు. కార్యక్రమంలో భాగంగా 50 మంది విద్యార్థులు పాల్గొని ఆధునికతరణమైన సైపుర్లను అభ్యసించటకు కృషి చేస్తున్నారని శిక్షణ అనుభవ ప్రకాష్ చైన్ విడిఎఫ్ ప్రైవేట్ లిమిటెడ్ డాక్టర్ ఎం రాజు బాహుబలేంద్రుడిని నేపథ్య అనిస్ట్రూట్ విశ్వాళకీ పుదుచ్చేరి ప్రత్యేకమైన ధన్యవాదాలు తెలిపారు. కార్యక్రమంలో కళాశాల డైరెక్టర్ డాక్టర్ రాజు మురుగదాస్ యాజమాన్యం ఫ్రీజర్ కనకరాజు, సెక్రటరీ డాక్టర్ ఎన్ ప్రసాద్ రాజు పాల్గొన్నారు.

**ఎన్ఎస్ఆర్ ఇటిలో శ్రీడి ప్రింటింగ్ వర్క్ షాప్**

**విశాఖలో విద్యార్థుల కార్యక్రమం**

**అభివృద్ధి - ఆనందపురం** : మండలంలో శోభన వంటి పక్కనారాయణ రాజు ఇంజనీరింగ్ కళాశాలలో ప్రాజెక్టును ప్రారంభించారు. ఈ కార్యక్రమంలో విభాగాధ్యక్షుడు డాక్టర్ పి ఎన్ ఈ సమీర్ ముఖ్య అతిథిగా హాజరై మాట్లాడుతూ ప్రస్తుత రోజుల్లో శ్రీ డి ప్రింటింగ్ ఉత్పత్తిని పొందాలని వివరించారు. దానికి సంబంధించిన అప్లికేషన్లు కూడా భారీగా పెరిగి అవకాశం ఉందని ముఖ్యంగా పోస్టుటల్లో మానవ అవయవాలు హాఫ్ ప్రెస్లో భాగంగా శ్రీడి ప్రింటింగ్ అత్యవసరమని, ప్రస్తుతం అది సార్వం కానప్పటికీ విశ్వాళకీ ఆభివృద్ధి చెందుతూ ఉంటుంది కాబట్టి భవిష్యత్లో డిజిటికీ మరియు డిమాండ్ పెరిగి అవకాశం ఉందని వేగం సామర్థ్యం, సరళత, రాబోయే కాలంలో డిజిటికీ అదరణ మరియు ఎక్కువగా పెరుగుతుందని తెలిపారు. కార్యక్రమంలో భాగంగా 50 మంది విద్యార్థులు పాల్గొని ఆధునికతరణమైన సైపుర్లను అభ్యసించటకు కృషి చేస్తున్నారని శిక్షణ అనుభవ ప్రకాష్ చైన్ విడిఎఫ్ ప్రైవేట్ లిమిటెడ్ డాక్టర్ ఎం రాజు బాహుబలేంద్రుడిని నేపథ్య అనిస్ట్రూట్ విశ్వాళకీ పుదుచ్చేరి ప్రత్యేకమైన ధన్యవాదాలు తెలిపారు. కార్యక్రమంలో కళాశాల డైరెక్టర్ డాక్టర్ రాజు మురుగదాస్ యాజమాన్యం ఫ్రీజర్ కనకరాజు, సెక్రటరీ డాక్టర్ ఎన్ ప్రసాద్ రాజు పాల్గొన్నారు.

**అభివృద్ధి - ఆనందపురం** : మండలంలో శోభన వంటి పక్కనారాయణ రాజు ఇంజనీరింగ్ కళాశాలలో ప్రాజెక్టును ప్రారంభించారు. ఈ కార్యక్రమంలో విభాగాధ్యక్షుడు డాక్టర్ పి ఎన్ ఈ సమీర్ ముఖ్య అతిథిగా హాజరై మాట్లాడుతూ ప్రస్తుత రోజుల్లో శ్రీ డి ప్రింటింగ్ ఉత్పత్తిని పొందాలని వివరించారు. దానికి సంబంధించిన అప్లికేషన్లు కూడా భారీగా పెరిగి అవకాశం ఉందని ముఖ్యంగా పోస్టుటల్లో మానవ అవయవాలు హాఫ్ ప్రెస్లో భాగంగా శ్రీడి ప్రింటింగ్ అత్యవసరమని, ప్రస్తుతం అది సార్వం కానప్పటికీ విశ్వాళకీ ఆభివృద్ధి చెందుతూ ఉంటుంది కాబట్టి భవిష్యత్లో డిజిటికీ మరియు డిమాండ్ పెరిగి అవకాశం ఉందని వేగం సామర్థ్యం, సరళత, రాబోయే కాలంలో డిజిటికీ అదరణ మరియు ఎక్కువగా పెరుగుతుందని తెలిపారు. కార్యక్రమంలో భాగంగా 50 మంది విద్యార్థులు పాల్గొని ఆధునికతరణమైన సైపుర్లను అభ్యసించటకు కృషి చేస్తున్నారని శిక్షణ అనుభవ ప్రకాష్ చైన్ విడిఎఫ్ ప్రైవేట్ లిమిటెడ్ డాక్టర్ ఎం రాజు బాహుబలేంద్రుడిని నేపథ్య అనిస్ట్రూట్ విశ్వాళకీ పుదుచ్చేరి ప్రత్యేకమైన ధన్యవాదాలు తెలిపారు. కార్యక్రమంలో కళాశాల డైరెక్టర్ డాక్టర్ రాజు మురుగదాస్ యాజమాన్యం ఫ్రీజర్ కనకరాజు, సెక్రటరీ డాక్టర్ ఎన్ ప్రసాద్ రాజు పాల్గొన్నారు.



## ఎన్ఎస్ఆర్ఐటి కళాశాలలో త్రిడి ప్రింటింగ్ వర్క్ షాప్

ఆవంధపురం, ఏప్రిల్ 5 ప్రభాతవార్త

మండలంలో శోభ్యం నడింపల్లి సత్యనారాయణ రాజు ఇంజనీరింగ్ కళాశాలలో మెకానికల్ ఇంజనీరింగ్ విభాగంలో ఏప్రిల్ 4 నుండి 6 తారీకు వరకు త్రిడి ప్రింటింగ్ వర్క్ షాప్ నిర్వహించారు. ఈ కార్యక్రమంలో విభాగాధిపతి డా.పిఎస్.ఈ. సవీన్ మాట్లాడుతూ ప్రస్తుత రోజుల్లో త్రిడి ప్రింటింగ్ కు మిలటరీ మెడికల్, ప్రజలకు అనేక విధంగా సహాయపడటంలో ముఖ్యమైన పాత్రను పోషిస్తూ అన్ని రకాల ఇండస్ట్రీలో ఆలోమేషన్, సూతన టెక్నాలజీలతో త్రిడి ప్రింటింగ్ ఉన్నతమైన స్థాయిని పొందాయని వివరించారు. ఈ కార్యక్రమంలో భాగంగా 50 మంది విద్యార్థులు పాల్గొని అధునికరణమైన వైపుబిల్డింగ్ అభ్యసించుటకు కృషి చేస్తున్నారని శిక్షణ ఇస్తున్న ఫ్రెండ్ డైనోపి టిఎఫ్ ప్రైవేట్ లిమిటెడ్ డాక్టర్ ఎం రాజు బాహుబలీంద్రుడిని నేషనల్ ఇనిస్టిట్యూట్ టెక్నాలజీ ఫుదుచ్చేరి ప్రత్యేకమైన ధన్యవాదాలు తెలిపారు. కళాశాల డైరెక్టర్ డా.రాజా మురుగదాస్ యాజమాన్యం ప్రెజిడెంట్ కనకరాజు, సెక్రటరీ డాక్టర్ ఎన్ ప్రసాద్ రాజు పాల్గొన్నారు.



The Three day workshop on 3D-Printing was closed by taking feedback and certificate distribution to students

**Report**  
On  
**PROJECT SHOW CASE**  
14<sup>th</sup> March 2023.

With reference to the circular from Principal, a pedagogy learning methodology program in the name of 'Project Show Case' was conducted on March 16<sup>th</sup>, 2023, Saturday in NSRIT College campus. This program was inaugurated at 02 PM by the Chief Guest **Dr.S.Subbarama Koushik** , NIT-Puducherry and **Dr.J.Murugudoss**, Director, NSRIT participated as honorable guests. The program was initiated with Guest Lecture. All the Heads of the departments are also participated in inauguration process.

The main objective of the program is to expose the creativity of the students in their academic projects to outside the society. This exhibition provides an opportunity for upcoming developer to exhibit their skills through their creations. Project Show Case 2023 presents an opportunity for all Final year talented students to show their innovative projects. This project exhibition is the ideal platform for audience to feel the pulse of the students and empower the students in the field of innovation and technology. Project Show Case 2023 aims at initiating interest in entrepreneurial activities and encouraging young innovators to register for patents. All the Heads of the Department, faculties, academic administrators of ME Department are participated in the program

S.No.	Department Name	Name of the faculty	Event - Location	Visited Time	Number of		
					Batches	Projects	Students
1	Mechanical Engineering (ME)	Dr.PN.E.Naveen,HOD Mrs.B.Usha Rani, Project Coordinator	Block - 2	02.00 PM to 03.30 PM	12	7	55A)
		Mr.Ch.V.V.S.S.R.Krishna Murthy,I/C HOD Mr.K.Ram Prasad Mr.N.Suneel Kumar Mr.T.Krishna Kumar Mr.K.Abinash Mr.G.Siva Sai Ram			12	6	56(B)

The following are the photographs attached in regard to the event.



The Project Show Case event was closed after taking Group Photograph from all Engineering Departments.

  
**Head of the Department**  
**Mechanical Engineering**  
**N.S. Raju Institute of Technology (A)**  
**Visakhapatnam-531173**



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY



(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada & An ISO 9001, ISO 14001 & ISO 45001 Certified Institution)

Recognized under 2(f) of the UGC Act 1956 & Accredited by NAAC with 'A' Grade (3.10/4.00)

SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 9885824187, 8099464546, www.nsr.it.edu.in

Department of Mechanical Engineering

## A Report on

### Guest Lecture on Electric Vehicles

Department of Mechanical engineering from NSRIT Engineering College arranged a guest lecture by Dr. Sendhil Kumar Natarajan, NIT - Puducherry on Electric Vehicles for IVth & VIth Semester (B.Tech. 2<sup>nd</sup> and 3<sup>rd</sup> Year) students on date 14th March, 2023 from 2.00 P.M – 3.30 P.M at Block2 Seminar Hall. Guest Lectures helps the students to learn something new and innovate. These programs help in thinking outside the box by presenting new ideas and thoughts programs for students.

The recourse person explained about 1. The importance and applications of Electric Vehicles 2. Solar energy, solar ponds and PV cell 3. Explained how to do Projects and apply patents on these fields.

Some of the advantages of Electric Vehicles are as follows (a) No fuel required so you save money on gas (b) Environmental friendly as they do not emit pollutants (b) Lower maintenance due to an efficient electric motor.

Also explained how to do Projects and apply patents on these fields by taking two project works done under his guidance in these fields .

PO's and PSO's covered are PO1-PO12, PSO1 and PSO2



  
Head of the Department  
Mechanical Engineering  
N.S. Raju Institute of Technology (A)  
Visakhapatnam-531173



**DEPARTMENT OF MECHANICAL ENGINEERING  
Mechatronics Registered List**

Sl.No	Roll.No	Student Name
1	21NU1A0301	AYATAMSETTY PRADEEP KUMAR
2	21NU1A0302	ADARI SANTOSH KARTHIK
3	21NU1A0303	ADDURI JAYA KIRAN GOPAL
4	21NU1A0304	AKKIREDDY SHYAM KUMAR
5	21NU1A0305	ARNEPALLI DEEPTHI
6	21NU1A0306	BALI SOMANADH KRISHNA PRASAD
7	21NU1A0307	BARLA RAGHAVENDRA
8	21NU1A0308	BOBBILI CHINA BABU
9	21NU1A0309	BODDAPU MAHESH
10	21NU1A0310	DEKKATHI MAHENDRA REDDY
11	21NU1A0311	DUKKA DINESH KUMAR
12	21NU1A0312	DUKKA MAHESH
13	21NU1A0313	DUNNA VIVEK
14	21NU1A0315	GADI MANIKANTA
15	21NU1A0316	GORLE LEELA PRASAD
16	21NU1A0318	GORLI VENU
17	21NU1A0319	GUBBALA SANDEEP
18	21NU1A0320	GUMMA AKHIL
19	21NU1A0321	KANKIPATI THANVEER
20	21NU1A0322	KANAKALA GIREESH
21	21NU1A0323	KARRI BHASKAR RAO
22	21NU1A0324	KOPPAKA JOSHAN KUMAR
23	21NU1A0325	KORADA CHANDU
24	21NU1A0326	KORADA HEMANTH KUMAR
25	21NU1A0327	KORUKONDA JAGADEESH
26	21NU1A0328	MEDISETTI GANGADHAR SAI SWAMY
27	21NU1A0329	MAJJI DILEEP KUMAR
28	21NU1A0330	MANDALA BHANU
29	21NU1A0332	MUDADLA DHANUSH
30	21NU1A0333	NARALA THARUN KUMAR REDDY
31	21NU1A0334	NARAPINNI BALAJI
32	21NU1A0335	PADI SAHADEV
33	21NU1A0336	PALEPU KOWSHIK SATYA SAI
34	21NU1A0337	PANGA CHANDU
35	21NU1A0338	PASAPU GANGADHARA KALYAN SAI KISHORE
36	21NU1A0339	PATHIVADA TEJA
37	21NU1A0340	PENUGONDA VARUNTEJA
38	21NU1A0341	PUNYAMANTHULA BHASKAR SAI

39	21NU1A0342	RONGALI CHANAKYA
40	21NU1A0344	TALLAPUREDDI LAKSHMAN SAI
41	21NU1A0345	VUDUKULA VINAY
42	21NU1A0346	MAHATO SHYAM KUMAR
43	22NU5A0305	CHIRIKI PAVAN KUMAR
44	22NU5A0311	KALLA RAJESH
45	22NU5A0317	NATTALA ABHISHEK



**DEPARTMENT OF MECHANICAL ENGINEERING  
NX CAD Registered List**

Sl.No	Roll.No	Student Name
1	21NU1A0301	AYATAMSETTY PRADEEP KUMAR
2	21NU1A0302	ADARI SANTOSH KARTHIK
3	21NU1A0303	ADDURI JAYA KIRAN GOPAL
4	21NU1A0304	AKKIREDDY SHYAM KUMAR
5	21NU1A0305	ARNEPALLI DEEPTHI
6	21NU1A0306	BALI SOMANADH KRISHNA PRASAD
7	21NU1A0308	BOBBILI CHINA BABU
8	21NU1A0309	BODDAPU MAHESH
9	21NU1A0311	DUKKA DINESH KUMAR
10	21NU1A0312	DUKKA MAHESH
11	21NU1A0313	DUNNA VIVEK
12	21NU1A0314	GONDESI VARUN KUMAR
13	21NU1A0315	GADI MANIKANTA
14	21NU1A0318	GORLI VENU
15	21NU1A0319	GUBBALA SANDEEP
16	21NU1A0320	GUMMA AKHIL
17	21NU1A0321	KANKIPATI THANVEER
18	21NU1A0322	KANAKALA GIREESH
19	21NU1A0323	KARRI BHASKAR RAO
20	21NU1A0324	KOPPAKA JOSHAN KUMAR
21	21NU1A0325	KORADA CHANDU
22	21NU1A0327	KORUKONDA JAGADEESH
23	21NU1A0328	MEDISETTI GANGADHAR SAI SWAMY
24	21NU1A0329	MAJJI DILEEP KUMAR
25	21NU1A0330	MANDALA BHANU
26	21NU1A0332	MUDADLA DHANUSH
27	21NU1A0334	NARAPINNI BALAJI
28	21NU1A0335	PADI SAHADEV
29	21NU1A0336	PALEPU KOWSHIK SATYA SAI
30	21NU1A0337	PANGA CHANDU
31	21NU1A0338	PASAPU GANGADHARA KALYAN SAI KISHORE
32	21NU1A0339	PATHIVADA TEJA
33	21NU1A0340	PENUGONDA VARUNTEJA
34	21NU1A0341	PUNYAMANTHULA BHASKAR SAI
35	21NU1A0342	RONGALI CHANAKYA
36	21NU1A0343	SIRAPARAPU MURALI KUMAR
37	21NU1A0344	TALLAPUREDDI LAKSHMAN SAI
38	21NU1A0345	VUDUKULA VINAY
39	22NU5A0305	CHIRIKI PAVAN KUMAR



**DEPARTMENT OF MECHANICAL ENGINEERING  
Product Lifecycle Management (PLM) Registered List**

Sl.No	Roll.No	Student Name
1	20NU1A0301	A. NITHIN VARMA
2	20NU1A0302	BANDARU SAGAR
3	20NU1A0303	CHANDA JAGADEESH KUMAR
4	20NU1A0305	DARA VIVEK
5	20NU1A0307	DASARI SRAVANA LAKSHMI
6	20NU1A0308	DIVYA PRAKASH KUMAR
7	20NU1A0311	DUVVI PRANEETH VARDHAN
8	20NU1A0312	DWARAPUREDDY VEERA VENKATA SAI ABHISHEK
9	20NU1A0313	GONTHINA BHASKAR
10	20NU1A0314	GORLE JAYA KRISHNA
11	20NU1A0315	GORLE KUSHAL
12	20NU1A0316	GORRIPOTU ANIL KUMAR
13	20NU1A0317	JEERLA LIKHIN KUMAR
14	20NU1A0319	KILARI JAGAN JEEVAN KUMAR
15	20NU1A0320	KINCHA SHYAM KRISHNA
16	20NU1A0322	KOKKERLAPATI SUDHEEP VARMA
17	20NU1A0323	KOLA VENKATA RAO
18	20NU1A0326	K. CHANDRAMOULI VARMA
19	20NU1A0328	MAJJI JOGESH
20	20NU1A0329	MASADA DIVAKAR
21	20NU1A0330	M. DINESH
22	20NU1A0332	NAKKA NAVEEN
23	20NU1A0333	NERELLA DURGA PRASAD
24	20NU1A0334	P. DILLESWAR RAO
25	20NU1A0335	PENTAKOTA DEVI SIVA PRASAD
26	20NU1A0336	PILLA NAVEEN
27	20NU1A0337	PITLA NAVEEN
28	20NU1A0338	PONTHAPALLI YAJNESWAR
29	20NU1A0339	RAYAVARAPU SAI KIRAN
30	20NU1A0340	RANGASALA ARUNKUMAR
31	20NU1A0341	SEELA LAKSHMI CHANDRA EKANTH
32	20NU1A0342	SIMMA MOHAN KUMAR
33	20NU1A0343	SIRIPURAPU MANOJ KUMAR
34	20NU1A0344	SOURASHISH TAKULKUDER
35	20NU1A0346	T LIKITH V S G B SARAN
36	20NU1A0347	TEEGALA PRUDHVI GUPTA
37	20NU1A0348	TIRUMAREDDY RAJESH



38	20NU1A0349	VIJANAGIRI MANI VARA PRASAD
39	20NU1A0350	YALLA ROHITH
40	20NU1A0351	YANDRAPU JAGADEESH
41	20NU1A0352	YEDURU SAMPATH SAI
42	21NU5A0301	BAKI SANKAR RAO
43	21NU5A0302	B. GANESH
44	21NU5A0303	B. PRABHU PAVAN
45	21NU5A0304	DODDI UDAY BHASKAR
46	21NU5A0305	GANAGALLA VEERANAND
47	21NU5A0306	GANTLA ATCHUTH
48	21NU5A0307	G. BAHANU PRASAD SAI
49	21NU5A0308	G. RAKESH
50	21NU5A0309	J. RAKESH
51	21NU5A0310	KARRI SAI TEJA
52	21NU5A0311	KORADA VENKATESH
53	21NU5A0312	MOHAMMAD BASHEERUDDIN
54	21NU5A0313	PASANABILLI MOHAN
55	21NU5A0314	PENTAKOTA VAYUNANDA SAI KUMAR
56	21NU5A0315	PULAMARASETTI GIRIDHAR
57	21NU5A0316	S. LOKESH



**DEPARTMENT OF MECHANICAL ENGINEERING  
INDUSTRIAL ROBOTICS Registered List**

Sl.No	Roll.No	Student Name
1	20NU1A0302	BANDARU SAGAR
2	20NU1A0303	CHANDA JAGADEESH KUMAR
3	20NU1A0305	DARA VIVEK
4	20NU1A0306	DASARI KARTHIK
5	20NU1A0307	DASARI SRAVANA LAKSHMI
6	20NU1A0308	DIVYA PRAKASH KUMAR
7	20NU1A0310	DOPPA ROSHAN SOWRI
8	20NU1A0311	DUVVI PRANEETH VARDHAN
9	20NU1A0312	DWARAPUREDDY VEERA VENKATA SAI ABHISHEK
10	20NU1A0313	GONTHINA BHASKAR
11	20NU1A0314	GORLE JAYA KRISHNA
12	20NU1A0315	GORLE KUSHAL
13	20NU1A0316	GORRIPOTU ANIL KUMAR
14	20NU1A0317	JEERLA LIKHIN KUMAR
15	20NU1A0318	KOVELAPALLI AJAY KUMAR
16	20NU1A0319	KILARI JAGAN JEEVAN KUMAR
17	20NU1A0320	KINCHA SHYAM KRISHNA
18	20NU1A0322	KOKKERLAPATI SUDHEEP VARMA
19	20NU1A0323	KOLA VENKATA RAO
20	20NU1A0325	KORADA SAI PRASAD
21	20NU1A0328	MAJJI JOGESH
22	20NU1A0329	MASADA DIVAKAR
23	20NU1A0333	NERELLA DURGA PRASAD
24	20NU1A0334	N.BALAJI
25	20NU1A0335	PENTAKOTA DEVI SIVA PRASAD
26	20NU1A0336	PILLA NAVEEN
27	20NU1A0337	PITLA NAVEEN
28	20NU1A0338	PONTHAPALLI YAJNESWAR
29	20NU1A0339	RAYAVARAPU SAI KIRAN
30	20NU1A0340	RANGASALA ARUNKUMAR
31	20NU1A0341	SEELA LAKSHMI CHANDRA EKANTH
32	20NU1A0342	SIMMA MOHAN KUMAR
33	20NU1A0343	SIRIPURAPU MANOJ KUMAR
34	20NU1A0347	TEEGALA PRUDHVI GUPTA
35	20NU1A0348	TIRUMAREDDY RAJESH
36	20NU1A0349	VIJANAGIRI MANI VARA PRASAD
37	20NU1A0350	YALLA ROHITH

38	20NU1A0351	YANDRAPU JAGADEESH
39	20NU1A0352	YEDURU SAMPATH SAI
40	21NU5A0301	BAKI SANKAR RAO
41	21NU5A0304	DODDI UDAY BHASKAR
42	21NU5A0305	GANAGALLA VEERANAND
43	21NU5A0306	GANTLA ATCHUTH
44	21NU5A0310	KARRI SAI TEJA
45	21NU5A0311	KORADA VENKATESH
46	21NU5A0312	MOHAMMAD BASHEERUDDIN
47	21NU5A0313	PASANABILLI MOHAN
48	21NU5A0314	PENTAKOTA VAYUNANDA SAI KUMAR
49	21NU5A0316	PULAMARASETTI GIRIDHAR
50	21NU5A0309	J RAKESH

## DEPARTMENT OF MECHANICAL ENGINEERING

### REPORT ON TECHNICAL PAPER WRITING

The Department of Mechanical Engineering introduced a skill-oriented course for B.Tech.V Semester Technical Paper Writing from 25-07-2022 to 12-11-2022. It was conducted as per the curriculum

#### Course Outcomes - Technical Paper Writing:

1. Develop searching latest relevant literature pertaining to the topic of interest.
2. Develop self-learning ability to become a lifelong independent learner.
3. Develop the habit of writing technical manuscript as per the requirement.
4. Develop presentation skills and speak with appropriate technical phrases.
5. Explore the research topics and develop research interests.
6. Comprehend the latest technologies, techniques, tools, and methodologies.

**Note:** All the above course outcomes are relatively mapped to all POs as it caters to all program outcomes

## DEPARTMENT OF MECHANICAL ENGINEERING

### REPORT ON SKILL-ORIENTED COURSE

The Department of Mechanical Engineering introduced a skill-oriented course for B.Tech.VI Semester Computer Aided Analysis from 12-12-2022 to 01-04-2023. It was conducted as per the curriculum

#### **Course Outcomes - Computer Aided Analysis (20MES04):**

1. Acquire the knowledge on basic geometric and solid modelling.
2. Ability to design orthographic and perspective projections using software.
3. Acquire basic approaches for various Algebraic and geometric forms.
4. Acquire basic approaches for various coordinate systems for solid modeling.
5. Gain the knowledge required formulation of load vector of nano-structured materials, Gauss quadrature Solution of 2D plane stress solid mechanics problems (linear static analysis)

# Online Certification

Students of

Semester -viii

## CONTENTS

- Student details
- **Certification**
- Platform
- PO Mapping

2022 - 2023



Department of  
Mechanical Engineering



### List of Projects and Outcomes Addressed (POs)

No.	Name of the Course	POs Addressed
1	Data Science	PO #1, PO #2, PO #4, PO #5, PO #9, PO #12, PSO #1, PSO #2
1	Python programming	PO #1, PO #2, PO #4, PO #5, PO #9, PO #12, PSO #1, PSO #2

### List of Online Certification Courses

No.	Name of the Student	Name of the Course	Duration (Hours)	Learning Platform
1	ADIGARLA SRINIVAS	Data Science	30 hours	Board infinity (APSCHE)
2	B BHARANI SAI	Data Science	30 hours	Board infinity (APSCHE)
3	BHUPATHIRAJU SAI CHARAN RAJU	Data Science	30 hours	Board infinity (APSCHE)
4	CHEKURI ESWARANARAYANA RAJU	Data Science	30 hours	Board infinity (APSCHE)
5	DALLI HARSHAVARDHAN MANISH REDDY	Data Science	30 hours	Board infinity (APSCHE)
6	DAMAROUTHU SATISH	Data Science	30 hours	Board infinity (APSCHE)
7	DARAPAREDDY PARESH	Data Science	30 hours	Board infinity (APSCHE)
8	GUPPI NAVEEN	Data Science	30 hours	Board infinity (APSCHE)
9	K VARUN KUMAR	Data Science	30 hours	Board infinity (APSCHE)
10	KADIYAM VAMSI KRISHNA	Data Science	30 hours	Board infinity (APSCHE)
11	KAKI JAYANTH	Data Science	30 hours	Board infinity (APSCHE)
12	KARRI VIJAYA KUMAR	Data Science	30 hours	Board infinity (APSCHE)
13	KILANI SAI SUMANTH GOVARDHAN	Data Science	30 hours	Board infinity (APSCHE)
14	ADARI MOHANBABU	Data Science	30 hours	Board infinity (APSCHE)
15	ALETI MANOJ KUMAR	Data Science	30 hours	Board infinity (APSCHE)
16	AMARAPALLI HEMANTHKUMAR	Data Science	30 hours	Board infinity (APSCHE)
17	AMARAPINI LAKSHMAN	Data Science	30 hours	Board infinity (APSCHE)
18	ANIMIREDDY DURGA DALINAIDU	Data Science	30 hours	Board infinity (APSCHE)
19	ANIMIREDDY GANESH	Data Science	30 hours	Board infinity (APSCHE)
20	BADITHABOYINA NITISH KUMAR	Data Science	30 hours	Board infinity (APSCHE)
21	BANDARU SANKARA RAO	Data Science	30 hours	Board infinity (APSCHE)
22	BANDHAM PAVAN	Data Science	30 hours	Board infinity (APSCHE)
23	BANDI JAGADEESH SAI KUMAR	Data Science	30 hours	Board infinity (APSCHE)
24	BODDETI SAI DILEEP	Data Science	30 hours	Board infinity (APSCHE)
25	BODDU SWAROOP	Data Science	30 hours	Board infinity (APSCHE)
26	BOGAVILLI ARVIND	Data Science	30 hours	Board infinity (APSCHE)

27	BONGU MANOJ KUMAR	Data Science	30 hours	Board infinity (APSCHE)
28	BUDDA VIKAS	Data Science	30 hours	Board infinity (APSCHE)
29	CHEEPURUPALLI PAVAN KALYAN	Data Science	30 hours	Board infinity (APSCHE)
30	CHITTURI KARTHIK	Data Science	30 hours	Board infinity (APSCHE)
31	DADI HARSHA VARDHAN	Data Science	30 hours	Board infinity (APSCHE)
32	DARAPUREDDY CHARAN SAI	Data Science	30 hours	Board infinity (APSCHE)
33	DARLA LAKSHMI NARASIMHA	Data Science	30 hours	Board infinity (APSCHE)
34	DHARMALA CHAITANYA	Data Science	30 hours	Board infinity (APSCHE)
35	DODDI NAVEEN KUMAR	Data Science	30 hours	Board infinity (APSCHE)
36	DOGGA BALAVENKATA KISHOR	Data Science	30 hours	Board infinity (APSCHE)
37	DOKKADA VAMSI	Data Science	30 hours	Board infinity (APSCHE)
38	DOLA SAI GANESH	Data Science	30 hours	Board infinity (APSCHE)
39	GALI RAVI TEJA	Data Science	30 hours	Board infinity (APSCHE)
40	GANDREDDI ANIL	Data Science	30 hours	Board infinity (APSCHE)
41	GANDREDDI MANIKANTA	Data Science	30 hours	Board infinity (APSCHE)
42	GANDREDDY DINESH	Data Science	30 hours	Board infinity (APSCHE)
43	GARA VIVEK	Data Science	30 hours	Board infinity (APSCHE)
44	GOLLAVILLI LAHAR	Data Science	30 hours	Board infinity (APSCHE)
45	GOPALASETTI ANIL KUMAR	Data Science	30 hours	Board infinity (APSCHE)
46	GUDIPUDI VAMSI	Data Science	30 hours	Board infinity (APSCHE)
47	GUMMIDI UDAY KIRAN	Data Science	30 hours	Board infinity (APSCHE)
48	GUTHULA SRINIVAS	Data Science	30 hours	Board infinity (APSCHE)
49	GUTTURTHI KUMAR SAI PAVAN	Data Science	30 hours	Board infinity (APSCHE)
50	JAGILINKI LAKSHMAN	Data Science	30 hours	Board infinity (APSCHE)
51	JAJULA NANI BABU	Data Science	30 hours	Board infinity (APSCHE)
52	KAKKALA GANESH	Data Science	30 hours	Board infinity (APSCHE)
53	KANDREGULA CHANDRA KIRAN	Data Science	30 hours	Board infinity (APSCHE)
54	KANTA YUVARAJ	Data Science	30 hours	Board infinity (APSCHE)
55	KORUBILLI PRANEETH	Data Science	30 hours	Board infinity (APSCHE)



56	LANDA BHARGAV	Data Science	30 hours	Board infinity (APSCHE)
57	MUMMIDI MOHIT	Data Science	30 hours	Board infinity (APSCHE)
58	MUNJULA JAYARAM	Data Science	30 hours	Board infinity (APSCHE)
59	N RAJEEV LOKESH	Data Science	30 hours	Board infinity (APSCHE)
60	PYLA RAJA	Data Science	30 hours	Board infinity (APSCHE)
61	SABBAVARAPU THARUN KUMAR	Data Science	30 hours	Board infinity (APSCHE)
62	SARAGADAM RAJ KUMAR	Data Science	30 hours	Board infinity (APSCHE)
63	SARVASUDDI VENKATESH	Data Science	30 hours	Board infinity (APSCHE)
64	TANAKALA KODANDA RAM	Data Science	30 hours	Board infinity (APSCHE)
65	VANGAPANDU TARUN	Data Science	30 hours	Board infinity (APSCHE)
66	VELPULA MOHIT KUMAR	Data Science	30 hours	Board infinity (APSCHE)
67	YANUMULAPALLI VENKATA SAI	Data Science	30 hours	Board infinity (APSCHE)
68	KOVVUR TRINATH	Data Science	30 hours	Board infinity (APSCHE)
69	KUNDETI HARISH	Data Science	30 hours	Board infinity (APSCHE)
70	LALAM GOPINADH	Data Science	30 hours	Board infinity (APSCHE)
71	LENKA SATTIBABU	Data Science	30 hours	Board infinity (APSCHE)
72	MADDALA GOWTAM SAI	Data Science	30 hours	Board infinity (APSCHE)
73	MADISA CHAITANYA	Data Science	30 hours	Board infinity (APSCHE)
74	MAJJI JAGADEESH	Data Science	30 hours	Board infinity (APSCHE)
75	MATCHA SANYASI DHANUSH KUMAR	Data Science	30 hours	Board infinity (APSCHE)
76	MEESALA VYKUNTESWARA RAO	Data Science	30 hours	Board infinity (APSCHE)
77	MIRTHIPATI SUDHEER	Data Science	30 hours	Board infinity (APSCHE)
78	MOLLETI MANOJ KUMAR	Data Science	30 hours	Board infinity (APSCHE)
79	MUDUNURI CHIRANJEEVI VARMA	Data Science	30 hours	Board infinity (APSCHE)
80	MUPPINA PRAVEEN KUMAR	Data Science	30 hours	Board infinity (APSCHE)
81	NAKKA LAKSHMAN REDDY	Data Science	30 hours	Board infinity (APSCHE)
82	NASRAT BHANU	Data Science	30 hours	Board infinity (APSCHE)
83	NEELAPU VENKATA SURYA TEJA	Data Science	30 hours	Board infinity (APSCHE)
84	PAILA CHARAN TEJA	Data Science	30 hours	Board infinity (APSCHE)
85	PASALA SHYAM	Data Science	30 hours	Board infinity (APSCHE)
86	PATCHIKORA YERRI NAIDU	Data Science	30 hours	Board infinity (APSCHE)

87	PATNANA VAMSHI	Data Science	30 hours	Board infinity (APSCHE)
88	PEELA MAHALAXMINAIDU	Data Science	30 hours	Board infinity (APSCHE)
89	PILLI HARISH	Data Science	30 hours	Board infinity (APSCHE)
90	POLIDASU NAGARAJU	Data Science	30 hours	Board infinity (APSCHE)
91	RAJANA VINAY KUMAR	Data Science	30 hours	Board infinity (APSCHE)
92	RAVADA REVATHI NANDU KUMAR	Data Science	30 hours	Board infinity (APSCHE)
93	RAVUPALLI VISWA TEJA	Data Science	30 hours	Board infinity (APSCHE)
94	SAI SEETHA	Data Science	30 hours	Board infinity (APSCHE)
95	SARAGADAM DINAKARA SURYA PRAKASH	Data Science	30 hours	Board infinity (APSCHE)
96	SARAGADAM JASWANTH	Data Science	30 hours	Board infinity (APSCHE)
97	SEKHARAMAHANTI BHARATH KUMAR	Data Science	30 hours	Board infinity (APSCHE)
98	SIMHADRI BHASKAR RAO	Data Science	30 hours	Board infinity (APSCHE)
99	SINGAMPALLI LOKESH	Data Science	30 hours	Board infinity (APSCHE)
100	SUGGI SURESH KUMAR	Data Science	30 hours	Board infinity (APSCHE)
101	TUMARADA SAI SANDEEP	Data Science	30 hours	Board infinity (APSCHE)
102	UPPULURI PAVAN KUMAR	Data Science	30 hours	Board infinity (APSCHE)
103	VANAM DINESH	Data Science	30 hours	Board infinity (APSCHE)
104	VANAPALLI YAGNESWARA SWAMY	Data Science	30 hours	Board infinity (APSCHE)
105	VANUMU GUNASEKHAR	Data Science	30 hours	Board infinity (APSCHE)
106	VARANASI MAHESH	Data Science	30 hours	Board infinity (APSCHE)
107	VEGI MOULI	Data Science	30 hours	Board infinity (APSCHE)
108	BELLAMKONDA UDAY SAI	Data Science	30 hours	Board infinity (APSCHE)
109	GOLLAPALLI DILEEP KUMAR	Data Science	30 hours	Board infinity (APSCHE)
110	KOMARAVOLU HARI VENKATA MANIKANTA	Data Science	30 hours	Board infinity (APSCHE)
111	LANKALAPALLI KEERTHI	Data Science	30 hours	Board infinity (APSCHE)

The logo for BOARD, with 'BO' in blue and 'ARD' in black.

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Adigirala Srinivas**

for successfully completing Micro learning Course  
in

**Data Science**

07-02-2023

Board Infinity

BI-2011115427986

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**BANDI BHARANI SAI**

for successfully completing Microlearning Course in

**Data Science**

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THIS CERTIFICATE IS AWARDED TO

**Bhupathi Raju Sai Charan Raju**

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**Data Science**

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**Ch. Eswara Narayana Raju**

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**Data Science**

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THIS CERTIFICATE IS AWARDED TO

**Darapareddy Paresh**

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**Data Science**

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THIS CERTIFICATE IS AWARDED TO

**Varun**

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## CERTIFICATE OF PARTICIPATION

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in

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## CERTIFICATE OF PARTICIPATION

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**Vijay Kumar**

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Govardhan**

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in

**Data Science**

06-02-2023

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## CERTIFICATE OF PARTICIPATION

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**Hemanth Kumar**

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in

**Data Science**

06-02-2023

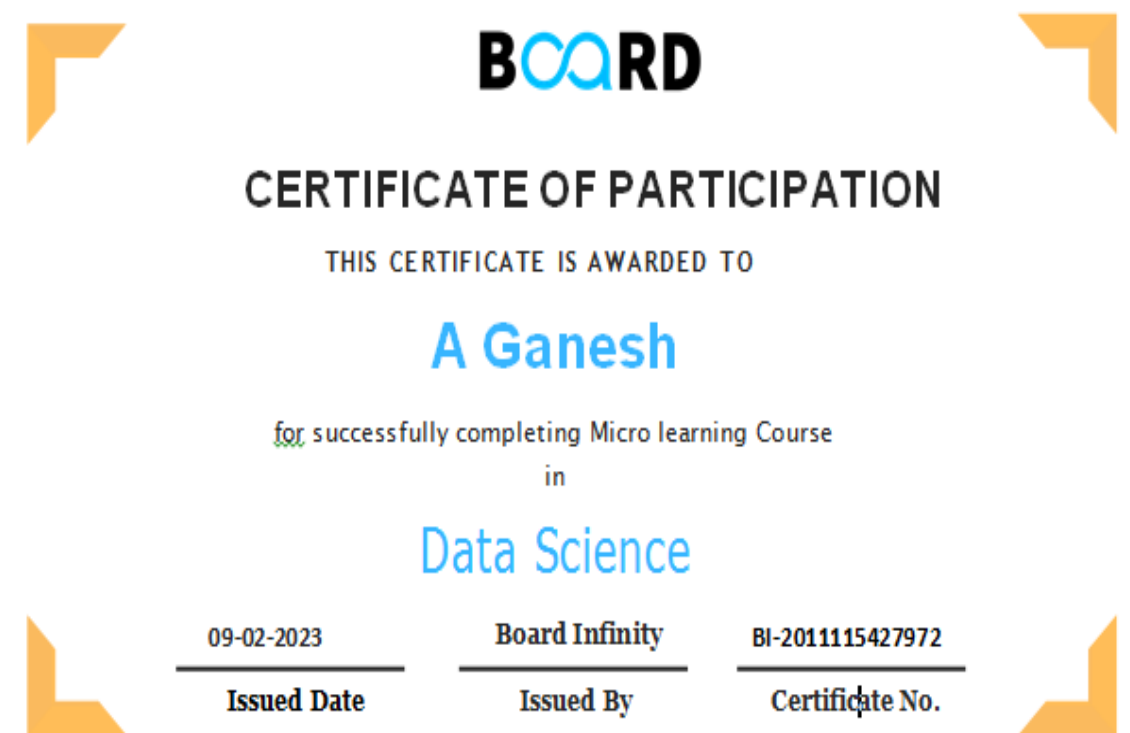
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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Nitish**

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**Data Science**

06-02-2023

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THIS CERTIFICATE IS AWARDED TO

**Bandaru Sankar**

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10-01-2023

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THIS CERTIFICATE IS AWARDED TO

**Bandham Pavan**

for successfully completing Microlearning Course in

**Data Science**

20-01-2023

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**B jagadeesh**

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in

**Data Science**

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Sai Dileep**

for successfully completing Micro learning Course  
in

**Data Science**

16-02-2023

Board Infinity

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Swaroop Boddu**

for successfully completing Microlearning Course in

**Data Science**

05-01-2023

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Arvind Bogavilli**

for successfully completing Microlearning Course in

**Data Science**

07-01-2023

Board Infinity

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**B Manoj**

for successfully completing Micro learning Course  
in

**Data Science**

16-02-2023

Board Infinity

BI-2011115427932

Issued Date

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**B vikas**

for successfully completing Micro learning Course  
in

**Data Science**

14-02-2023

Issued Date

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Pavan Kalyan**

for successfully completing Micro learning Course  
in

**Data Science**

12-02-2023

Issued Date

Board Infinity

Issued By

BI-2011115427947

Certificate No.



**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Muppina Praveen Kumar**

for successfully completing Microlearning Course in

**Data Science**

06-01-2023

Board Infinity

BI-2011115420233

Issued Date

Issued By

Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Karthik Chitturi**

for successfully completing Microlearning Course in

**Data Science**

06-01-2023

Board Infinity

BI-2011115420425

Issued Date

Issued By

Certificate No.

# BOARD

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Dadi Harsha Vardhan**

for successfully completing Microlearning Course in

**Data Science**

07-01-2023

Board Infinity

BI-2011115420527

Issued Date

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Certificate No.

# BOARD

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**D Charan Sai**

for successfully completing Micro learning Course  
in

**Data Science**

12-02-2023

Board Infinity

BI-2011115427941

Issued Date

Issued By

Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**D L Narasimha**

for successfully completing Micro learning Course  
in

**Data Science**

11-02-2023

Board Infinity

BI-2011115427939

Issued Date

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Chaitanya D**

for successfully completing Micro learning Course  
in

**Data Science**

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BI-2011115427932

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## CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS AWARDED TO

**Naveen Kumar**

for successfully completing Microlearning Course in

**Data Science**

04-01-2023

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BI-2011115419967

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**BOARD**

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**D Kishore**

for successfully completing Micro learning Course

in

**Data Science**

16-02-2023

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Dokkada Vamsi**

for successfully completing Microlearning Course in

**Data Science**

07-01-2023

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BI-2011115420544

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**D Ganesh**

for successfully completing Micro learning Course

in

**Data Science**

16-02-2023

Board Infinity

BI-2011115427973

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Ganesh**

for successfully completing Micro learning Course  
in

**Data Science**

18-02-2023

Board Infinity

BI-2011115427978

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**G Raviteja**

for successfully completing Micro learning Course  
in

**Data Science**

18-02-2023

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BI-2011115427977

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Anil G**

for successfully completing Micro learning Course  
in

**Data Science**

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BI-2011115427983

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Manikanta Ganireddy**

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**Data Science**

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BI-2011115428187

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Gandreddy Dinesh**

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**Data Science**

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Gara Vivek**

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**Data Science**

21-01-2023

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BI-2011115422279

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**BOARD**

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**LAHAR**

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**G Anil**

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**G Vamsi**

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## CERTIFICATE OF PARTICIPATION

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**Udaykiran**

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## CERTIFICATE OF PARTICIPATION

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**G srinivas**

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**Sai Pavan**

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**Data Science**

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THIS CERTIFICATE IS AWARDED TO

**Jagilinki Lakshman**

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**Data Science**

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THIS CERTIFICATE IS AWARDED TO

**Jajula Nani Babu J**

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**Data Science**

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BI-2011115420209

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Kakkala Ganesh**

for successfully completing Micro learning Course  
in

**Data Science**

22-02-2023

Board Infinity

BI-2011115427986

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Kandregula Chandrakiran**

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**Data Science**

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**KANTA YUVARAJ**

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**Data Science**

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Korubilli Praneeth**

for successfully completing Microlearning Course in

**Data Science**

24-01-2023

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Certificate No.

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Landa Bhargav**

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**Data Science**

14-01-2023

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BI-2011115421422

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**CERTIFICATE OF PARTICIPATION**

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**Mummidi Mohit**

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**Data Science**

05-01-2023

Board Infinity

BI-2011115420211

Issued Date

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Jayaram**

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in

**Data Science**

22-02-2023

Board Infinity

BI-2011115427988

Issued Date

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**N Rajeev Lokesh**

for successfully completing Microlearning Course in

**Data Science**

11-01-2023

Board Infinity

BI-2011115421265

Issued Date

Issued By

Certificate No.



**BOARD**

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Pyla Raja**

for successfully completing Micro learning Course  
in

**Data Science**

21-02-2023

Board Infinity

BI-2011115427971

Issued Date

Issued By

Certificate No.

**BOARD**

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**S Tarun Kumar**

for successfully completing Micro learning Course  
in

**Data Science**

21-02-2023

Board Infinity

BI-2011115427962

Issued Date

Issued By

Certificate No.

**BOARD**

## CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS AWARDED TO

**Saragadam Rajkumar**

for successfully completing Microlearning Course in

**Data Science**

04-01-2023

Board Infinity

BI-2011115419963

Issued Date

Issued By

Certificate No.

**BOARD**

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**S Venkatesh**

for successfully completing Micro learning Course  
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**Data Science**

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Board Infinity

BI-2011115427966

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Issued By

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**BOARD**

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**T K Ram**

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**Data Science**

21-02-2023

Board Infinity

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**TARUN**

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**Data Science**

21-02-2023

Board Infinity

BI-2011115427959

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Mohith**

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**Data Science**

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Y.Venkata Sai**

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**Data Science**

18-01-2023

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BI-2011115421623

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Kovvur Trinath**

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**Data Science**

20-01-2023

Board Infinity

BI-2011115421962

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Issued By

Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**K Harish**

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in

**Data Science**

21-02-2023

Board Infinity

BI-2011115427955

Issued Date

Issued By

Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Gopinadh Lalam**

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**Data Science**

10-01-2023

Board Infinity

BI-2011115421053

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Sattibabu Lenka**

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**Data Science**

06-01-2023

Board Infinity

BI-2011115420283

Issued Date

Issued By

Certificate No.

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**CERTIFICATE OF PARTICIPATION**

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**Gowtham Sai**

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**Data Science**

21-02-2023

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BI-2011115427942

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**Madisa Chaitanya**

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in

**Data Science**

10-01-2023

Board Infinity

BI-2011115427745

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**M.Jagadeesh**

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**Data Science**

06-01-2023

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BI-2011115420247

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Danush Kumar**

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**Data Science**

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Board Infinity

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**Vyakuteswara Rao Meesala**

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**Data Science**

07-01-2023

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BI-2011115420624

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Sudheer**

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in

**Data Science**

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**CERTIFICATE OF PARTICIPATION**

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**MOLLETI MANOJ KUMAR**

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**Data Science**

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**M CHIRANJEEVI**

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in

**Data Science**

10-01-2023

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BI-2011115427734

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BOARD

CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

Muppina Praveen Kumar

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Data Science

06-01-2023

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BI-2011115420233

Issued Date

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CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

N Lakshman Reddy

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Data Science

06-01-2023

Board Infinity

BI-2011115420326

Issued Date

Issued By

Certificate No.

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Nasrat Bhanu**

for successfully completing Microlearning Course in

**Data Science**

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BI-2011115420322

Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**N V Surya**

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in

**Data Science**

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BI-2011115427733

Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Charan Teja**

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in

**Data Science**

10-01-2023

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BI-2011115427731

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Pasala Shyam**

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**Data Science**

11-01-2023

Board Infinity

BI-2011115421230

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**BOARD**

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Naidu**

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**Data Science**

06-01-2023

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BI-2011115420280

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Certificate No.

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Vamshi Patnana**

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**Data Science**

06-01-2023

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BI-2011115420278

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Certificate No.

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**P M Naidu**

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in

**Data Science**

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**P Harish**

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**Data Science**

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Polidasu Nagaraju**

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**REVATHI NANDU KUMAR RAVADA**

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## CERTIFICATE OF PARTICIPATION

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**VISWATEJA RAVUPALLI**

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OpenEDG Python Institute Authorized Academy Program



Statement of Achievement

### PCAP: Programming Essentials in Python

The graduate of the *PCAP: Programming Essentials in Python* course, provided by Cisco Networking Academy<sup>®</sup> in collaboration with OpenEDG Python Institute:

- know the universal concepts of computer programming, including variables, data structures, algorithms, control flow, functions, and exceptions;
- can proficiently use the developer tools, the runtime environment, and the syntax and semantics of the Python language;
- can use fundamental programming techniques, best practices, customs, and vocabulary, including the most common standard library functions in Python 3;
- can write Python programs using standard language infrastructure, and knows the means by which to resolve typical implementation problems;
- knows how to work with modules and packages, process text and binary files, and use generators, iterators, and closures;
- understands the fundamentals of object-oriented programming (OOP) and the way they are adopted in Python.

**SAI SEETHA**

Student



**Madak Wishty**  
VP & CEO, OpenEDG

**12 Oct 2022**

Date

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Dinakara Surya Prakash Saragadam**

for successfully completing Microlearning Course in

**Data Science**

18-01-2023

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**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**S Jaswanth**

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in

**Data Science**

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**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Bharath Kumar**

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**Data Science**

07-01-2023

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BI-2011115420625

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**CERTIFICATE OF PARTICIPATION**

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**SIMHADRI BHASKAR RAO**

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**Singampalli Lokesh**

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THIS CERTIFICATE IS AWARDED TO

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## CERTIFICATE OF PARTICIPATION

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**Sandeep**

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**U Pavankumar**

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THIS CERTIFICATE IS AWARDED TO

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THIS CERTIFICATE IS AWARDED TO

**V Y Swamy**

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## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Vanumu Guna Sekhar**

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**Data Science**

06-01-2023

Board Infinity

BI-2011115420462

Issued Date

Issued By

Certificate No.

# BOARD

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Mahesh Varanasi**

for successfully completing Microlearning Course in

**Data Science**

06-01-2023

Board Infinity

BI-2011115420298

Issued Date

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**Vegi Mouli**

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**Data Science**

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Board Infinity

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Certificate No.

**BOARD**

**CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS AWARDED TO

**UDAY SAI**

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**Data Science**

11-01-2023

Board Infinity

BI-2011115427712

Issued Date

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Certificate No.



# BOARD

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**DILEEP KUMAR**

for successfully completing Micro learning Course  
in

**Data Science**

11-01-2023

Board Infinity

BI-2011115427711

Issued Date

Issued By

Certificate No.

# BOARD

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Hari Venkata Manikanta Komaravolu**

for successfully completing Microlearning Course in

**Data Science**

06-01-2023

Board Infinity

BI-2011115420261

Issued Date

Issued By

Certificate No.

**BOARD**

## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Lankalapallikeerthi L**

for successfully completing Microlearning Course in

**Data Science**

05-01-2023

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Certificate No.

# Massive Open Online Courses (MOOCs) Certification

Students of  
Semester - V



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- Student details
- **Certification**
- Platform
- PO Mapping

2022 - 2023

Department of  
Mechanical Engineering



[www.nsr.it.edu.in](http://www.nsr.it.edu.in)

### List of Projects and Outcomes Addressed (POs)

No.	Name of the Course	POs Addressed
1	CATIA v5	PO #1, PO #2, PO #3, PO #5, PO #6, PO #9, PO #10, PO #12, PSO #1, PSO #2
2	CAM and Mechanical Design	PO #1, PO #2, PO #3, PO #5, PO #6, PO #9, PO #10, PO #12, PSO #1, PSO #2
3	Programming with Python	PO #1, PO #2, PO #4, PO #5, PO #9, PO #12, PSO #1, PSO #2
4	Databases and SQL	PO #1, PO #2, PO #4, PO #5, PO #9, PO #12, PSO #1, PSO #2
5	Introduction to electric Vehicles	PO #1, PO #5, PO #6, PO #12, PSO #1, PSO #2

### List of Online Certification Courses

No.	Name of the Student	Name of the Course	Duration (Hours)	Learning Platform
1	AYENAMPUDI NITHIN VARMA	CATIA v5	42 hours	Infosys Springboard
2	BANDARU SAGAR	CATIA v5	42 hours	Infosys Springboard
3	CHANDA JAGADEESH KUMAR	CAM and Mechanical Design	40 hours	Coursera
4	DAKETI LEELA SAI KIRAN	CATIA v5	42 hours	Infosys Springboard
5	DARA VIVEK	CATIA v5	42 hours	Infosys Springboard
6	DASARI KARTHIK	CATIA v5	42 hours	Infosys Springboard
7	DASARI SRAVANA LAKSHMI	CATIA v5	42 hours	Infosys Springboard
8	DIVYA PRAKASH KUMAR	CATIA v5	42 hours	Infosys Springboard
9	DOKKARI MOHAN	CATIA v5	42 hours	Infosys Springboard
10	DOPPA ROSHAN SOWRI	CATIA v5	42 hours	Infosys Springboard
11	DUVVI PRANEETH VARDHAN	CATIA v5	42 hours	Infosys Springboard
12	D.V. VENKATA SAI ABHISHEK	CATIA v5	42 hours	Infosys Springboard
13	GONTHINA BHASKAR	CATIA v5	42 hours	Infosys Springboard
14	GORLE JAYA KRISHNA	CATIA v5	42 hours	Infosys Springboard
15	GORLE KUSHAL	CATIA v5	42 hours	Infosys Springboard
16	GORRIPOTU ANIL KUMAR	CATIA v5	42 hours	Infosys Springboard
17	JEERLA LINKHIN KUMAR	CATIA v5	42 hours	Infosys Springboard
18	KOVELAPALLI AJAY KUMAR	CATIA v5	42 hours	Infosys Springboard
19	KILARI JAGAN JEEVAN KUMAR	CATIA v5	42 hours	Infosys Springboard
20	KINCHA SHYAM KRISHNA	CATIA v5	42 hours	Infosys Springboard
21	KODI PRUDHVI RAJ	CATIA v5	42 hours	Infosys Springboard
22	KOKKERLAPATI SUDHEEP VARMA	CATIA v5	42 hours	Infosys Springboard
23	KOLA VENKATA RAO	CATIA v5	42 hours	Infosys Springboard
24	KORADA SAI PRASAD	CATIA v5	42 hours	Infosys Springboard
25	KUTCHARLAPATI CHANDRAMOULI VARMA	Programming with Python	42 hours	Internshala
26	M GEETA SAI PRASAD	CAM and Mechanical Design	40 hours	Coursera
27	MAJJI JOGESH	CATIA v5	42 hours	Infosys Springboard
28	MASADA DIVAKAR	CATIA v5	42 hours	Infosys Springboard
29	MUMMANA DINESH	CATIA v5	42 hours	Infosys Springboard
30	M. YOGENDRA	CATIA v5	42 hours	Infosys Springboard
31	NAKKA NAVEEN	CATIA v5	42 hours	Infosys Springboard
32	NERELLA DURGA PRASAD	CATIA v5	42 hours	Infosys Springboard
33	PALAKOLLU DILLESWARA RAO	CATIA v5	42 hours	Infosys Springboard
34	PENTAKOTA DEVI SIVA PRASAD	CATIA v5	42 hours	Infosys Springboard
35	PILLA NAVEEN	CATIA v5	42 hours	Infosys Springboard

36	PITLA NAVEEN	CATIA v5	42 hours	Infosys Springboard
37	PONTHAPALLI YAJNESWAR	CATIA v5	42 hours	Infosys Springboard
38	RAYAVARAPU SAI KIRAN	Databases and SQL	6 weeks	Coursera
39	RANGASALA ARUNKUMAR	CATIA v5	42 hours	Infosys Springboard
40	SEELA LAKSHMI CHANDRA EKANTH	CATIA v5	42 hours	Infosys Springboard
41	SIMMA MOHAN KUMAR	CATIA v5	42 hours	Infosys Springboard
42	SIRIPURAPU MANOJ KUMAR	Python for beginners	40 hours	Simplilearn
43	SOURASISH TALUKDER	CATIA v5	42 hours	Infosys Springboard
44	TEDLAPU LIKHITH V S G B SARAN	Programming with Python & Introduction to electric Vehicles	38 hours	Internshala & Skill-Lync
			32 hours	
45	TEEGALA PRUDHVI GUPTA	CATIA v5	42 hours	Infosys Springboard
46	TIRUMAREDDY RAJESH	Programming with Python	42 hours	Internshala
47	VIJANAGIRI MANI VARA PRASAD	CATIA v5	42 hours	Infosys Springboard
48	YALLA ROHITH	CATIA v5	42 hours	Infosys Springboard
49	YANDRAPU JAGADEESH	CATIA v5	42 hours	Infosys Springboard
50	YEDURU SAMPATH SAI	CATIA v5	42 hours	Infosys Springboard
51	BAKI SANKAR RAO	CATIA v5	42 hours	Infosys Springboard
52	BONELA GANESH	CATIA v5	42 hours	Infosys Springboard
53	BONULA PRABHU PAVAN	CATIA v5	42 hours	Infosys Springboard
54	DODDI UDAY BHASKAR	CATIA v5	42 hours	Infosys Springboard
55	GANAGALLA VEERANAND	CATIA v5	42 hours	Infosys Springboard
56	GANTLA ATCHUTH	CATIA v5	42 hours	Infosys Springboard
57	GOLAGANI BHANU PRASAD SAI	CATIA v5	42 hours	Infosys Springboard
58	GUGGILAM RAKESH	CATIA v5	42 hours	Infosys Springboard
59	JAGARAPU RAKESH	CATIA v5	42 hours	Infosys Springboard
60	KARRI SAI TEJA	CATIA v5	42 hours	Infosys Springboard
61	KORADA VENKATESH	CATIA v5	42 hours	Infosys Springboard
62	MOHAMMED BASHEERUDDIN	CATIA v5	42 hours	Infosys Springboard
63	PASANABILLI MOHAN	CATIA v5	42 hours	Infosys Springboard
64	PENTAKOTA VAYUNANDA SAI KUMAR	CATIA v5	42 hours	Infosys Springboard
65	PULAMARASETTI GIRIDHAR	CATIA v5	42 hours	Infosys Springboard
66	SARVASUDDI LOKESH	CATIA v5	42 hours	Infosys Springboard
67	SOURAV DAS	CATIA v5	42 hours	Infosys Springboard



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The certificate is awarded to:

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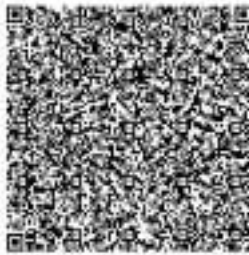
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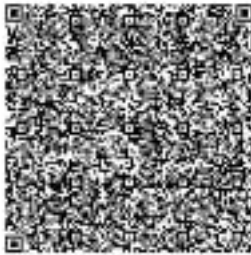
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**Sravani Dasari**

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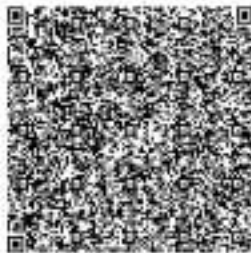
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The certificate is awarded to

**Praneeth Vardhan**

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**Dwarapureddy veera venkata sai Abhishek**

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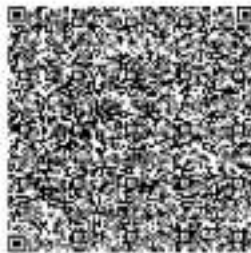
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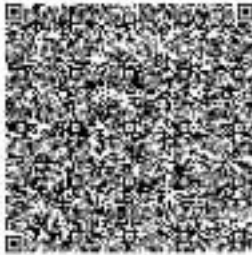
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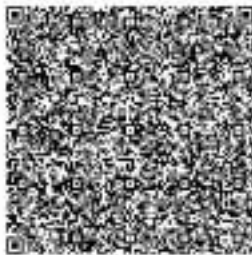
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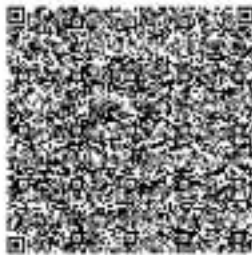
for successfully completing the course

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The certificate is awarded to

**AJAY KUMAR KOVELAPALLI**

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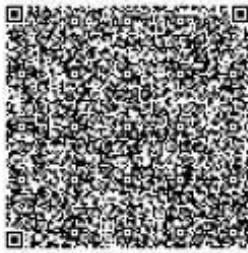
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**Kokkerlapati Sudheep varma**

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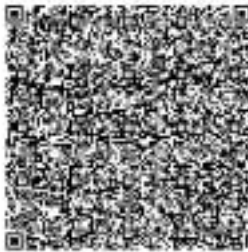
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**JOGESH MAJJI**

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**Dinesh Mummana**

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**Munjeti Yogendra**

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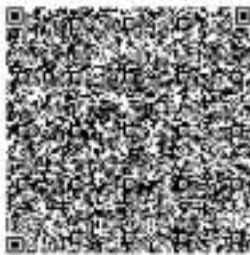
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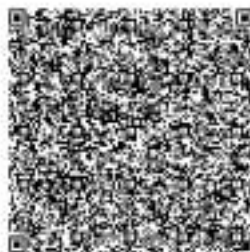
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**yajnesh ponthapalli**

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Oct. 26, 2022

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Education, Training and Assessment (ETA)  
Infosys Limited



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Ekanth Seela**

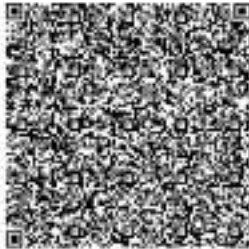
for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Wednesday, October 26th 2022

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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**SIMMA MOHAN KUMAR**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Thursday, November 3rd 2022

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Education, Training and Assessment (ETA)  
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**SkillUP**  
by Simplilearn

### Declaration of Completion

**SIRIPURAPU MANOJ KUMAR**

has successfully completed the online course:

**Python for Beginners**

This professional has demonstrated initiative and a commitment to deepening their skills and advancing their career. Well done!

11<sup>th</sup> Oct 2022

Certificate code : 3845211

  
Krishna Kumar  
CEO



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**sourasish Talukder**

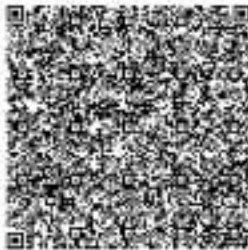
for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

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Thirumala Anchi  
Senior Vice President and Head  
Education, Training and Assessment (ETA)  
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**INTERSHALA TRAININGS**

## Certificate of Training


**TEDLAPU LIKHITH V S G B SARAN**

has successfully completed a 6-week online training on Programming with Python. The training consisted of Introduction to Python, Using Variables in Python, Basics of Programming in Python, Principles of Object-oriented Programming (OOP), Connecting to SQLite Database, Developing a GUI with PyQt, Application of Python in Various Disciplines, and The Final Project modules.  
In the final assessment, TEDLAPU scored 78% marks.  
We wish TEDLAPU all the best for future endeavours.

  
Sarvesh Agarwal  
FOUNDER & CEO, INTERSHALA

Date of certification: 2023-10-01      Certificate no.: 22060202-4A00-0758-0880-AC1088883024  
For certificate authentication, please visit [https://training.intershala.com/verify\\_certificate](https://training.intershala.com/verify_certificate)



SKILL  LYNC

# CERTIFICATE OF COMPLETION

presented to

**TEDLAPU LIKHITH V S G B SARAN**

For successful completion of **INTRODUCTION TO ELECTRIC VEHICLES**

Certificate UID : 1R69Qj0KZdOeWDUK

Date of Issue : 10 October 2022

**SARAN CARAJAN V**  
Co-Founder, Skill-Lync



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**PRUDHVI GUPTA**

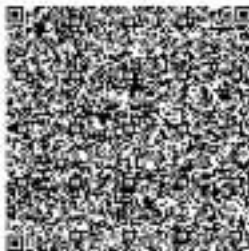
for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Monday, November 14th 2022

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Senior Vice President and Head  
Education, Training and Assessment (ETA)  
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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**ROHITH YALLA**

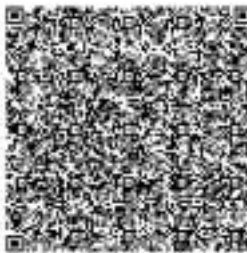
for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Monday, November 14th 2022

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Senior Vice President and Head,  
Education, Training and Assessment (ETA)  
Infosys Limited



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Yandrapu Jagadeesh**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Wednesday, October 26th 2022

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Senior Vice President and Head,  
Education, Training and Assessment (ETA)  
Infosys Limited



**COURSE COMPLETION CERTIFICATE**

The certificate is awarded to

**Sampath sai Yeduru**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Thursday, November 3rd 2022

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Senior Vice President and Head  
Education, Training and Assessment (ETA)  
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**COURSE COMPLETION CERTIFICATE**

The certificate is awarded to

**BAKI SANKAR RAO B**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Monday, October 31st 2022

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Senior Vice President and Head  
Education, Training and Assessment (ETA)  
Infosys Limited



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Ganesh Bonela**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Monday, October 31st 2022

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Education, Training and Assessment (ETA)  
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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Bonula Prabhu pavan**

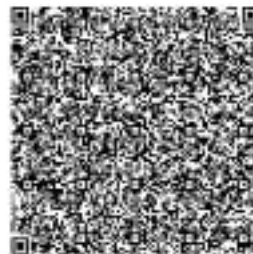
for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

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Senior Vice President and Head  
Education, Training and Assessment (ETA)  
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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**DODDI UDAY BHASKAR**

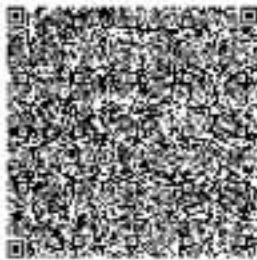
for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Wednesday, October 26th 2022

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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**GANAGALLA VEERANAND**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

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Education, Training and Assessment (ETA)  
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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**GANTLA ATCHUTH**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Wednesday, October 26th 2022

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Thirumala Anithi  
Senior Vice President and Head  
Education, Training and Assessment (ETA)  
Infosys Limited



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**BHANU PRASAD SAI GOLAGANI**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Monday, October 31st 2022

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Senior Vice President and Head  
Education, Training and Assessment (ETA)  
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**COURSE COMPLETION CERTIFICATE**

The certificate is awarded to

**Rakesh Guggilam**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Friday, October 28th 2022

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**COURSE COMPLETION CERTIFICATE**

The certificate is awarded to

**Jagarapu Rakesh**

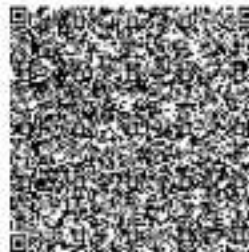
for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Sai Teja Karri**

for successfully completing the course

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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**KORADA VENKATESH**

for successfully completing the course

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Education, Training and Assessment (ETA)  
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**COURSE COMPLETION CERTIFICATE**

The certificate is awarded to

**MOHAMMAD BASHEERUDDIN**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Wednesday, October 26th 2022

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**COURSE COMPLETION CERTIFICATE**

The certificate is awarded to

**Mohan Pasanabilli**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Wednesday, October 26th 2022

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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Vayu Nanda**

for successfully completing the course

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**PULAMARASETTI GIRIDHAR P**

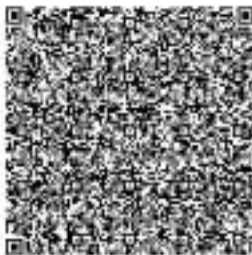
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Education, Training and Assessment (ETA)  
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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**SARVASUDDI Lokesh**

for successfully completing the course

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on Monday, October 31st 2022

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Education, Training and Assessment (ETA)  
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## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Sourav Das**

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**NSRIT**

AUTONOMOUS

THREE DAY

**WORKSHOP**

**REMOTE SENSING & GIS**

TUESDAY – THURSDAY

OCT. 11 – 13, 2022

**RESOURCE PERSON**

**MR. M. D. SATYAM MOHAN**

RESEARCH SCHOLAR, ANDHRA  
UNIVERSITY, VIZAG


**DEPARTMENT OF**

**CIVIL ENGINEERING**







 GPS Map Camera

**Anandapuram, Andhra Pradesh, India**

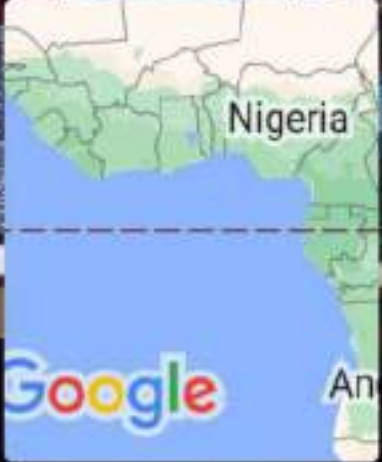
V79W+VJX, Anandapuram, Andhra Pradesh

531173, India

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Long 83.296662°

11/10/22 09:50 AM GMT +05:30



**NSRIT****NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

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Date: 17-09-2022

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING****Report on a One Day Guest Lecture on “Design and Testing of converters for renewable energy systems”**

The Department of Electrical & Electronics Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous) has conducted a One Day Guest Lecture on “Design and Testing of converters for renewable energy systems” on 17<sup>th</sup> September’ 2022, from 10:30AM till 12:00PM at Block – I, Seminar Hall. The resource person was Dr. M.Prabhakar / Professor / SELECT / VIT Chennai. He has co-authored about 45 research papers in various reputed journals and conferences. His research interests include power electronics, power converters, high-gain DC-DC converters and DC microgrids. He was a recipient of the Outstanding Teacher Award for his excellent teaching and research contributions in 2009 and the Research Award which is awarded by the Vellore Institute of Technology for his research contributions continuously since 2012. He is an active reviewer of various reputed journals.

**NSRIT**  
AUTONOMOUS

**WEBINAR**  
**ENGINEERS'**  
**DAY SPECIAL**

**SATURDAY** | **TIME**  
SEP. 17, 2022 | 10:30 AM

**SPEAKER**  
**DR. M. PRABHAKAR**  
PROFESSOR, VIT, CHENNAI

**TOPIC: RENEWABLE ENERGY SYSTEMS**

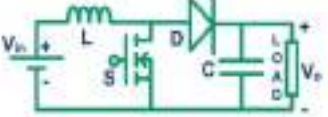
**DEPARTMENT OF**  
**ELECTRICAL & ELECTRONICS ENGINEERING**

The event has been conducted for the EEE III & IV year, total 60 students and the Faculty, total 11 members. The Head of the Department, Dr. RSR Krishnam Naidu has attended the event along with all the Department staff. Dr. R. Amaleswari, Assistant Professor has hosted the event. The Head of the Department has addressed the gathering as well as thanked the Resource person for accepting the invitation for the conduction of the event.

REC


REVISIONS Background Converter Synthesis Practical Design Aspects Experiments

### Classical Boost Converter (CBC)



Stored energy is transferred from L to C.

Either the Switch or the Diode conduct-but "not both".



$V_{in} = 24V$   
 $V_{out} = 48V$   
 $P_{out} = 96W$   
 $f_{sw} = 50kHz$   
 $\Delta I_L = 20\% \text{ of } I_{in}$   
 $\Delta V_C = 5\% \text{ of } V_o$

Design and Testing of Converters for Renewable Energy Systems  
 Dr. Prabhakar M 50287's screen special - 17<sup>th</sup> Sep 2023, NSRIT, AP

Dr. M. Prabhakar,  
 Professor/Centre for Smart Grid Technologies  
 prabhakar.m@vit.ac.in

The session has been started by the resource person. The session consisted of analysis, design and testing of DC DC boost converters. Initially the conventional boost converter design and testing are discussed along with practical waveforms. Next the methodologies required to improve the gain were presented. Later the converter topologies employing these methods are shown with practical results. Finally the importance of component design, component selection, testing environment and testing procedures are highlighted.



### Non-Iso

- ✓ Additional flexibility in control
- ✓ Smaller transformer size
- ✓ Circuit breakers – lower rating
- ✗ Interruption of large DC currents



Design and Testing of Converters for Renewable Energy Systems  
 Webinar – Engineers’ Day Special – 17<sup>th</sup> Sep 2022, NSRIT, AP

Dr. M. Prabhakar,  
 Professor/Centre for Smart Grid Technologies  
 prabhakar.m@vit.ac.in



The session has been concluded by Vote of Thanks by Dr. R. Amaleswari, Assistant Professor by thanking the Resource person and the Head of Department for conducting such a resourceful event and requested to conduct some more such fruitful sessions in the future.

The session was ended with National Anthem.

**HOD – EEE**  
 (Dr. R S R Krishnam Naidu)

**DIRECTOR**  
 (Dr. J. RAJA MURUGADOSS)

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Meet

Labels

Guest Lecture - regarding External Inbox x

**amaleswari r** <amaleswari.eee@nsrit.edu.in> to prabhakar.m

Dear Sir,

Greetings for the day!

We are planning a guest lecture titled “Design and Testing of Converters for Renewable Energy S for our 3rd and 4th year EEE students along with our staff members on 17/09/22 (Saturday) for an h expertise in this area of research.

Please consider this email as a humble invitation and kindly revert back with a positive response.

Sir, Please suggest other possible date if you already have any pre-planned appointments on this date.

Thanks and Regards,

Dr. Amaleswari Rajulapati,

Assistant Professor / EEE,

NSRIT(A), <http://nsrit.edu.in/>,



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Dear Amaleswari,

Thank you so much for inviting me to deliver a guest lecture.

As of now, 17th Sep 2022 10.30AM is convenient for me.

If there are any last-minute changes, I shall inform you by 15th Sep evening.

Regards,

Dr. M. Prabhakar,  
Professor / Centre for Smart Grid Technologies,  
School of Electrical Engineering (SELECT),  
Vellore Institute of Technology,  
Vandalur-Kelambakkam Road,  
Chennai - 600127. India.

**Vellore Institute of Technology (VIT), India -**

- **Ranked among the top 601-700 Universities of the world and one among the top 3 Institutions in I**
- **The 9th best University, the 10th best research institution and the 12<sup>th</sup> best engineering institution**

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## **BRIEF PROFILE**



**M. PRABHAKAR** received the B.E. degree in electrical and electronics engineering from the University of Madras, Chennai, India, in 1998, the M.E. degree in power electronics and drives from Bharathidasan University, Tiruchirappalli, India, in 2000, and the Ph.D. degree in electrical engineering from Anna University, Chennai, in 2012. He started his teaching career as a Lecturer, in 2000. Since 2012, he has been associated with the School of Electrical Engineering (SELECT), Vellore Institute of Technology, Chennai. From 2019, he has been working as a professor and is associated with the Centre of Smart Grid Technologies, since May 2022. He has co-authored about 45 research papers in various reputed journals and conferences.

His research interests include power electronics, power converters, high-gain DC-DC converters, and DC microgrids. He was a recipient of the Outstanding Teacher Award for his excellent teaching and research contributions in 2009 and the Research Award which is awarded by the Vellore Institute of Technology for his research contributions continuously since 2012. He is an active reviewer of various reputed journals.

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IV BEE, VII SEMESTER 17.9.22**

SLNo	Roll No	Name of Candidate	Signature
1	19NU1A0201	BOBBILI VARSHINI SIVA SANTHOSHI	<i>[Signature]</i>
2	19NU1A0202	CHELLUBOINA HARI SATYA TEJA	<i>[Signature]</i>
3	19NU1A0203	JONNADA SATYA	<i>[Signature]</i>
4	19NU1A0204	KALLA HARSHAVARDHAN	<i>[Signature]</i>
5	19NU1A0205	KANCHIPATI PRASAD	<i>[Signature]</i>
6	19NU1A0207	KOPPOJU SAI BRAHMAJI	<i>[Signature]</i>
7	19NU1A0208	LENKA DINESH MANIKANTA	<i>[Signature]</i>
8	19NU1A0210	PAVADA ANIL KUMAR	<i>[Signature]</i>
9	19NU1A0211	REDDIPALLI HIMANSHU	<i>[Signature]</i>
10	19NU1A0213	SRIKAKULAPU CHINNI HARISH	<i>[Signature]</i>
11	20NUS40201	ADARI VARAHA VENKATA JAGADEESWARAMMA	<i>[Signature]</i> 17/9/22
12	20NUS40202	AINAMPUDI NARENDRA VARMA	<i>[Signature]</i>
13	20NUS40203	BALIBANI PAVAN KUMAR	<i>[Signature]</i>
14	20NUS40204	BODIREDDY CHANDRA SEKHAR REDDY	<i>[Signature]</i>
15	20NUS40205	BOIDA VUAYA KUMAR	<i>[Signature]</i>
16	20NUS40206	CHODIPILLI VENKATA SATYA MADHU	<i>[Signature]</i>
17	20NUS40207	CHUKKALA SRINU	<i>[Signature]</i>
18	20NUS40208	DARIMSETTI MOULI	<i>[Signature]</i>
19	20NUS40209	KAMPARA VENI SRI	<i>[Signature]</i>
20	20NUS40210	KANDREGULA JAYANTH	<i>[Signature]</i>
21	20NUS40211	KATIPALLI AJAY KUMAR	<i>[Signature]</i>
22	20NUS40212	KUNDRAPU ANUSHA	<i>[Signature]</i>
23	20NUS40213	MIRITHIPATI GANESH KUMAR	<i>[Signature]</i>
24	20NUS40214	MYLAPALLI RAMESH	<i>[Signature]</i>
25	20NUS40215	PATIBANDLA BOAZ RAJU	<i>[Signature]</i>
26	20NUS40216	SATYAVARAPU DURGA TARUN	<i>[Signature]</i>



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
III EEE,V SEMESTER**

Sl.No	Roll No	Name of Candidate	Signature
1	20NU1A0201	ADAPUREDDI DIVYA	A. Divya
2	20NU1A0202	ADIMULAM BHAGATH	A. Bhagath
3	20NU1A0203	ALLA POLI VINAY	A. Vinay
4	20NU1A0204	ALLADI AKSHAY	A. Akshay
5	20NU1A0205	APPIKONDA ASWINI	A. Aswini
6	20NU1A0207	CHAPPA CHUDAMANI	Ch. Chudamani
7	20NU1A0208	CHINTHALA JANANI	Ch. Janani
8	20NU1A0209	D TARUN CHANDRA YUVARAJ	D. Tarun Chandra Yuvaraj
9	20NU1A0210	DAMMU DINESH	D. Dinesh
10	20NU1A0211	GOLLAVILLI MANI DEEPAK	G. Mani Deepak
11	20NU1A0212	GORLE SRINIVAS	G. Srinivas
12	20NU1A0213	GOTTAPU DIVYA	G. Divya
13	20NU1A0214	ITTHAMSETTY JANARDHAN KUMAR	J. Janardhan Kumar
14	20NU1A0215	JAKKANA ASHOK	J. Ashok
15	20NU1A0216	KALLA VAMSI KRISHNA	K. Vamsi Krishna
16	20NU1A0217	KARAKA REVATHI	K. Revathi
17	20NU1A0218	KASSEY DELIESH SAI CHARAN	K. D. Sai Charan
18	20NU1A0219	KENGUVA UMA MAHESWAR	K. Uma Maheswar
19	20NU1A0220	MIRTHIPATI LOKESH	M. Lokesh
20	20NU1A0221	NAKKELLA DIVYA	N. Divya
21	20NU1A0222	NIRUJOGI RAMESH	N. Ramesh
22	20NU1A0223	PEMMADI UDAY SRINIVAS	P. Uday Srinivas
23	20NU1A0224	PINISSETTI YERNI BABY	P. Yerni Baby
24	20NU1A0225	SALAPU VASANTHI	S. Vasanthi
25	20NU1A0226	SIMMA YUGANDHAR	S. Yugandhar
26	20NU1A0227	YELLAPU NAGA SOWMYA SREE	Y. Sowmya
27	21NU5A0201	BEVARA PRIYANKA	B. Priyanka
28	21NU5A0202	BUDDHA RAKESH	B. Rakesh
29	21NU5A0203	DHARMANA VENKATA SAI RAKESH	D. Sai Rakesh
30	21NU5A0204	DODDI SINDHUSHA	D. Sindhusa
31	21NU5A0205	GAJULA NISHANK BABA	G. Nishank Baba
32	21NU5A0206	K N JAGANNADHA LOKESH VARMA	K. N. Jagannadha Lokesh Varma
33	21NU5A0207	NEELAPU CHARAN KUMAR REDDY	N. Charan Kumar Reddy
34	21NU5A0208	PALURI SAI VENKATA TEJA	P. S. V. Teja

**NSRIT****NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

ESTD:2008

**(AUTONOMOUS)**

(Approved by AICTE, New Delhi &amp; Permanently Affiliated to JNTUK, Kakinada)

Recognized under Section 2(f) &amp; 12(B) of the UGC Act, 1956 | Accredited by NAAC with 'A' Grade

Date: 21-10-2022

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING****Report on a One Day Guest Lecture on “Recent trends in Design and Control of Electric Vehicles”**

The Department of Electrical & Electronics Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous) has conducted a One Day Guest Lecture on “Recent trends in Design and Control of Electric Vehicles” on 21<sup>st</sup> October 2022, from 2:30PM till 4:00PM at Block – I, Seminar Hall. The resource person was Dr. Selvajyothis / Assistant Professor / IIIT D &M, Kancheepuram, Chennai. She has co-authored 4 books and 36 research papers in various reputed journals and conferences. Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received “Research fellowship in the University of Padova, Italy in 2009”. Also received “Best paper award in Technical session 1.1 of CIEC 2016”. She is an active reviewer of various reputed journals.

**NSRIT**  
AUTONOMOUS

**Department of EEE**

**Topic: Recent Trends in Design and Control of Electric Vehicles**

**RESOURCE PERSON**  
**Dr. K. Selvajyothis,**  
IIITD & M (Indian Institute of Information Technology, Design and Manufacturing, Chennai, Tamil Nadu)

**October 21, 2022**

**02:30 PM - 03:30 PM**

The event has been conducted for the EEE II, III & IV year, total 125 students and the Faculty, total 11 members. The Head of the Department, Dr. RSR Krishnam Naidu has attended the event along with all the Department staff. Dr. R. Amaleswari, Assistant Professor has hosted the event. The Head of the Department has addressed the gathering as well as thanked the Resource person for accepting the invitation for the conduction of the event.



The session has been started by the resource person. The session consisted of design and control of Electric Vehicles (EVs). Initially why EVs, EV adoption Curve is discussed along with E-mobility ecosystem. Next impact of adoption of EV on the DS was presented. Later types of EVs, EV subsystem are explained. Finally Charging Infrastructure and Electric motors, importance of battery design, selection, testing environment and testing procedures are highlighted.





The session has been concluded by Vote of Thanks by Dr. R. Amaleswari, Assistant Professor by thanking the Resource person and the Head of Department for conducting such a resourceful event and requested to conduct some more such fruitful sessions in the future.

The session was ended with National Anthem.

**HOD – EEE**  
**(Dr. R S R Krishnam Naidu)**

**DIRECTOR**  
**(Dr. J. RAJA MURUGADOSS)**



amaleswari r &lt;amaleswari.eee@nsrit.edu.in&gt;

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## Request for Guest Lecture - Regarding

4 messages

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amaleswari r <amaleswari.eee@nsrit.edu.in>

Sat, Sep 10, 2022 at 8:53 PM

To: ksjoythi@iiitdm.ac.in

Dear Mam,

Greetings for the day!

We are planning a guest lecture titled “Recent trends in Design and Control of Electric Vehicles” at our institute through virtual mode for our 3rd and 4th year EEE students along with our staff members on 1/10/22 (Saturday) for an hour from 10:30am. I request you to share your expertise in this area of research.

Please consider this email as a humble invitation and kindly revert back with a positive response.

Mam, Please suggest other possible date if you already have any pre-planned appointments on this date.

Thanks and Regards,

Dr. Amaleswari Rajulapati,

Assistant Professor / EEE,

NSRIT(A), <http://nsrit.edu.in/>,

Visakhapatnam, India.

Mob: +91 9884489614.

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Selvajyothi Kamakshy <ksjoythi@iiitdm.ac.in>

Sat, Sep 24, 2022 at 6:06 AM

To: amaleswari r &lt;amaleswari.eee@nsrit.edu.in&gt;

Shall we have it on October 15th or later saturdays?

Dr K.Selvajyothi

[ksjoythi@iiitdm.ac.in](mailto:ksjoythi@iiitdm.ac.in)

Department of Electronics and Communication Engineering

IIITD&M Kancheepuram

off Vandalur - Kelambakkam Road, Chennai-127  
Ph: 91-44-2747 6348

[Quoted text hidden]

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
To: Selvajyothi Kamakshy <ksjyothi@iiitdm.ac.in>

Wed, Sep 28, 2022 at 10:26 AM

Good morning mam,  
We can have on October 15th as you suggested.

I request you to send me one page profile and photo of yours.

Thanks and Regards,  
Dr. Amaleswari Rajulapati,  
Assistant Professor / EEE,  
NSRIT(A), <http://nsrit.edu.in/>,  
Visakhapatnam, India.  
Mob: +91 9884489614.

[Quoted text hidden]

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
To: Selvajyothi Kamakshy <ksjyothi@iiitdm.ac.in>

Fri, Oct 21, 2022 at 11:19 AM

Good morning mam,  
I am forwarding the meeting link for today's lecture session.  
Topic: Recent trends in Design and Control of Electric Vehicles  
Date and Time: 21.10.22, Friday, 2:30PM to 3:30PM

Join Zoom Meeting  
<https://us06web.zoom.us/j/2300295677?pwd=VnR1QWZBdjRXOUkwWndWNmNOQjhuZz09>

Meeting ID: 230 029 5677  
Passcode: NSRIT

Thanks and Regards,  
Dr. Amaleswari Rajulapati,

12/25/22, 7:27 PM

Nadimpalli Satyanarayana Raju Institute of Technology Mail - Request for Guest Lecture - Regarding

Assistant Professor / EEE,

NSRIT(A), <http://nsrit.edu.in/>,

Visakhapatnam, India.

Mob: +91 9884489614.

[Quoted text hidden]

## BRIEF PROFILE



**Dr. Selvajyothi K** received B. Tech degree in electrical and electronics engineering from the University of Kerala, Thiruvananthapuram, India, in 1995, M.E. degree in power electronics and industrial drives from Satyabhama Institute of Science and Technology, Chennai, India, in 2004, and Ph.D. degree in electrical engineering from IIT Madras, Chennai, in 2009. Now she is faculty in department of ECE, IITD&M (Indian Institute of Information Technology, Design and Manufacturing) Kancheepuram, Chennai. She has 20 years teaching experience and 17 years research experience. She is a life member of ISTE, member in IIS, IEEE, SAEINDIA and ESSI. She has co-authored 4 books, 17 Journals and 19 conference Publications. She was Co Chair / School of Computer Science and Electrical Engineering (June 2017-Jan 2018) and HOD/ Dept of ECE (Jan 2018-June 2019). Also handled numerous positions such as UG admission coordinator (2009-2011), Warden-Girls hostel (2010-2013), Placement coordinator (2012-2014), PG Admission i/c, PhD Admission i/c, Invited Lectures Prof i/c, member in disciplinary committee (2017-2019).

Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received "Research fellowship in the University of Padova, Italy in 2009". Also received "Best paper award in Technical session 1.1 of CIEC 2016". She is an active reviewer of various reputed journals.



**NSRIT** NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)

(Approved by AICTE, New Delhi & Programme Approved by JETP, Bangalore)  
Recognized under Section 3 of the UGC Act, 1956, Affiliated to Anna University, Chennai

Class Lecture attendance on 21.10.22

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
II SEM, II SEMESTER

Sl. NO	ROLL NO	Name	Signature
1	21NUIA0201	ANIK DAS	Anik Das
2	21NUIA0202	ANUPURU RAIKUL	ANUPURU RAIKUL
3	21NUIA0203	ANIGI DEVI	A. Devi
4	21NUIA0204	ATTILI ROHITH RAMACHANDRA GOWDU	GOWDU
5	21NUIA0205	BANTU GNANA CHANDRA SEKHAR	sekhar
6	21NUIA0206	BAVARAJU JAHNAVI	JAHNAVI
7	21NUIA0207	BHAVISETTY VARA PRASAD	B. Vara Prasad
8	21NUIA0208	BIPIN KUMAR SHA	KUMAR Sha
9	21NUIA0209	BOJHA SATHVIKA	SATHVIKA
10	21NUIA0210	BORANGI PAVAN KALYAN	P. Pavan Kalyan
11	21NUIA0211	CHALLA SASI VARDHAN RAO	Ch Sasi Vartharao
12	21NUIA0212	CHAVAKULA KUMAR	Ch. Kumar
13	21NUIA0213	DAKARAJU SAI MALIND	M. S. D
14	21NUIA0215	DAJARSINGH HARSHAVARDHAN	HA RSHAVARDA
15	21NUIA0216	DHARMI REDDY PUSHPAJA	D. Pushpaja
16	21NUIA0217	DOKALA SARAN KUMAR	D. Saran Kumar
17	21NUIA0218	GANITA POLI NAIDU	G. Polinaidu
18	21NUIA0219	JAKA SRAVAN KUMAR	→
19	21NUIA0220	KARAKA JITHENDRA	K. Jithendra
20	21NUIA0221	KOTTYADA LOKITHA	K. Lokitha
21	21NUIA0222	KAREDLA MOHAN MADHU BALA	K. madhu Bala
22	21NUIA0223	KARI MAHESH	K. MAHESH
23	21NUIA0224	KARRI BHASKAR RAO	K. Bhas. Rao
24	21NUIA0225	KEMBURU KARTHIK	KARTHIK
25	21NUIA0226	KINTALI ASHWINI	K. Ashwini
26	21NUIA0227	MAJINDA MUKESH	M. mukesh
27	21NUIA0228	MALLAREDDI LALITH KUMAR	lalith
28	21NUIA0229	MAJIDI BHARU	M. Bharu
29	21NUIA0230	MIRIPALLI SAI KRISHNA	M. saikrishna
30	21NUIA0231	MUTTURU GAYATRI	M. GAYATRI
31	21NUIA0233	NAGUBILI SUJATHA	N. Sujatha
32	21NUIA0234	NAKKA HIRAN KIRAN	H. H. - 2
33	21NUIA0235	MANDURI DEVI KIRAN	N. Devi Kiran
34	21NUIA0236	PAMBALA MANJANTA GANESH	P. Manjanta Ganesh

35	21NU1A0237	PATTIMI PARAMESH	P. Paramesh
36	21NU1A0239	PADALA KANCHANA SAI GOWTHAMI	P.K.S.Gowthami
37	21NU1A0240	PAISAKA ROHIT ROY	P. ROHIT
38	21NU1A0241	PALAVALASA SIRI	P. Siri
39	21NU1A0242	PALLI RADHIKA	
40	21NU1A0243	PATABALLA TEJA SANDEEP	P. Teja Sandeep
41	21NU1A0244	PENTAPATI SIVA RAMESH	P. SIVA
42	21NU1A0245	PONTHAPALLI BHAGYA LAKSHMI	P. BHAGYA
43	21NU1A0246	POTTI KRISHNA VARDHAN	P. VARDHAN
44	21NU1A0247	PRASADULA DEEPTHI	P. Deepthi
45	21NU1A0248	RAPARTHI KARTHIK	R. Kartik
46	21NU1A0249	SABBAVARAPU POORNA CHANDRA RAO	S. Pooja
47	21NU1A0250	SARAGADAM YESHWANTH	S. Yeswanth
48	21NU1A0251	SARIPALLI MANIKANTA SWAMY	S. Manikanta Swamy
49	21NU1A0253	SUDABATHULA KETHAN SUBHASH	S. Kethan
50	21NU1A0254	TAMATAPU UPENDRA	T. UPENDRA
51	21NU1A0255	TEEGALA SRAVANTHI	T. SRAVANTHI
52	21NU1A0256	UPPALAPATI VARSHITHA	U. VARSHITHA
53	21NU1A0257	VARRI DIVAKAR	V. DIVAKAR
54	21NU1A0258	VAVILAPALLI CHANDRA SEKHAR	V. Chandrashekar
55	20NU1A0206	BADITHAMANI R.S.S.V.SAI VIGNESH	R. R.S.S. VIGNESH

Guest Lecture attendance on 21.10.22

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IV BEE, VII SEMESTER

SLNo	Roll No	Name of Candidate	Signature
1	19NU1A0201	BOBBILI VARSHINI SIVA SANTHOSHI	B. Varshini
2	19NU1A0202	CHELLUDINA HARI SATYA TEJA	Chelludina Hari Satya Teja
3	19NU1A0203	JONNADA SATYA	Jonjada Satya
4	19NU1A0204	KALLA HARSHAVARDHAN	Kalla Harshavardhan
5	19NU1A0205	KANCHIPATI PRASAD	Kanchipati Prasad
6	19NU1A0207	KOPPOJU SAI BRAHMAI	Koppoju Sai Brahmai
7	19NU1A0208	LENKA DINESH MANIKANTA	Lenka Dinesh Manikanta
8	19NU1A0210	PAVADA ANIL KUMAR	Pavada Anil Kumar
9	19NU1A0211	REDDIPALLI HIMANSHU	Reddipalli Himanshu
10	19NU1A0213	SRIKAKULAPU CHINNI HARISH	Srikakulapu Chinni Harish
11	20NUSA0201	ADARI VARAHA VENKATA JAGADEESWARAMMA	Adari Varaha Venkata Jagadeeswaramma
12	20NUSA0202	AINAMPUDI NARENDRA VARMA	Ainampudi Narendra Varma
13	20NUSA0203	BALIBANI PAVAN KUMAR	Balibani Pavan Kumar
14	20NUSA0204	BODIREDDY CHANDRA SEKHAR REDDY	Bodireddy Chandra Sekhar Reddy
15	20NUSA0205	BODA VIJAYA KUMAR	Boda Vijaya Kumar
16	20NUSA0206	CHODIPILLI VENKATA SATYA MADHU	Chodipilli Venkata Satya Madhu
17	20NUSA0207	CHUKKALA SRINU	Chukkala Srinu
18	20NUSA0208	DARIMSETTI MOULI	Darimsetti Mouli
19	20NUSA0209	KAMPARA VENI SRI	Kampara Veni Sri
20	20NUSA0210	KANDREGULA JAYANTH	Kandregula Jayanth
21	20NUSA0211	KATIPALLI AJAY KUMAR	Katipalli Ajay Kumar
22	20NUSA0212	KUNDRAPU ANUSHA	Kundrapu Anusha
23	20NUSA0213	MIRTHIPATI GANESH KUMAR	Mirthipati Ganesh Kumar
24	20NUSA0214	MYLAPALLI RAMESH	Mylapalli Ramesh
25	20NUSA0215	PATIDANDLA BOAZ RAJU	Patidandla Boaz Raju
26	20NUSA0216	SATYAVARAPU DURGA TARUN	Satyavarapu Durga Tarun

Guest Lecture attendance on 21.10.22

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
III EEEV SEMESTER

SLNo	Roll No	Name of Candidate	Signature
1	20NU1A0201	ADAPUREDDI DIVYA	A. Divya
2	20NU1A0202	ADIMULAM BHAGATHI	Bhagathi
3	20NU1A0203	ALLA POLI VINAY	A. Poli Vinay
4	20NU1A0204	ALLADI AKSHAY	A. Akshay
5	20NU1A0205	APPIKONDA ASWINI	A. Aswini
6	20NU1A0207	CHAPPA CHUDAMANI	Ch. Chudamani
7	20NU1A0208	CHINTHALA JANANI	Ch. Janani
8	20NU1A0209	D TARUN CHANDRA YUVARAJ	D. Tarun Chandra Yuvaraj
9	20NU1A0210	DAMMU DINESH	D. Dinesh
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14	20NU1A0215	JAKKANA ASHOK	J. Ashok
15	20NU1A0216	KALLA VAMSI KRISHNA	K. Vamsi
16	20NU1A0217	KARAKA REVATHI	K. Revathi
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32	21NU5A0206	K N JAGANNADHA LOKESH VARMA	K. Lokesh Varma
33	21NU5A0207	NEELAPU CHARAN KUMAR REDDY	N. Charan Kumar Reddy
34	21NU5A0208	PALURI SAI VENKATA TEJA	P. S. V. Teja



Date: 21-12-2022 to 23-12-2022

## **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

### **Report on “3 day hybrid workshop on EV Technology – Hands on Experience”**

The Department of Electrical & Electronics Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous) has conducted a “3 day hybrid workshop on EV Technology – Hands on Experience” from 21<sup>st</sup> - 23<sup>rd</sup> December 2022 at Block – I, APSSDC Lab. The resource persons were Dr. Raja / Associate Professor / IIT D &M, Kancheepuram, Chennai, Dr. Selvajyothi / Assistant Professor / IIT D &M, Kancheepuram, Chennai, Dr. J Ravi Kumar / Zoe Talent Solutions, Dubai, Mr. Venkat Reddy / Vihaan Electrix.

#### **Dr. B. Raja**

She has co-authored 4 books and 36 research papers in various reputed journals and conferences. Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received “Research fellowship in the University of Padova, Italy in 2009”. Also received “Best paper award in Technical session 1.1 of CIEC 2016”. She is an active reviewer of various reputed journals.

#### **Dr. Selvajyothi**

She has co-authored 4 books and 36 research papers in various reputed journals and conferences. Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received “Research fellowship in the University of Padova, Italy in 2009”. Also received “Best paper award in Technical session 1.1 of CIEC 2016”. She is an active reviewer of various reputed journals.

#### **Dr. J. Ravi Kumar**

He was awarded *Young Scientist Fellowship* by Directorate of Science and Technology, HRD Ministry of India for research project on *Variable Speed Drive Systems* with financial grant. He has received **UAE GOLDEN VISA** under Talented Professionals category. He is a Senior IEEE member, member of International Engineers Association (IAENG) and reviewer for various international journals. His research and teaching interests are in modeling, design, and control of electric motors and drives for industrial and alternate energy applications. He has published research articles in various international journals/conferences.

## ORGANISING TEAM

**NSRIT**  
AUTONOMOUS

### CHIEF PATRON

Sri V. N. Satyanarayana Raja  
Chairman, NSRIT

### PATRONS

Dr. N. Prasada Raju, Secretary, NSRIT  
Sri. N. Kanaka Raju, Treasurer, NSRIT  
Dr. J. Raja Murugadas, Director, NSRIT

### PROGRAM CHAIR

Dr. R. S. B. Krishnar Naidu, HoD (EEE)

### CONVENOR

Dr. R. Anilakumari, Assistant Professor (CER)

### MEMBERS

Mrs. V. Usha Rani, Assistant Professor  
Mr. P. Mahesh, Assistant Professor  
Mr. E. S. Kotharasanyala, Associate Professor  
Mr. K. M. Tarapore, Assistant Professor  
Mr. A. Raja Raju Roy, Assistant Professor  
Mr. B. Davakar, Assistant Professor  
Mr. K. Naveen, Assistant Professor  
Mrs. S. Yavini, Assistant Professor  
Mrs. D. Sathya Devi, Assistant Professor



**MR. VENKATA REDDY**

Expert in Control & Technology Organization



**DR. J. RAVI KUMAR**

Core Talent Solutions, Dubai



**DR. SILELA PCTH**

Expert from IIT I, IIM, Chennai



**DR. S. RAJA**

Expert from IIT I, IIM, Chennai



## DEPT. OF ELECTRICAL & ELECTRONICS ENGINEERING

### 3-DAY HYBRID WORKSHOP EV - TECHNOLOGY - HANDS ON EXPERIENCE

December 21 - 23, 2022

In association with



**VIHAAN**  
INDIA

www.nsr.it.edu.in | NAAC Accredited with 'A' Grade | QS 1 - Gauge Certified



### CONTACT US

**Ms. V. USHA Rani**  
Coordinator

Department of EEE,  
Nadimolli Satyanarayana Raju Institute of  
Technology (NSRIT)  
Sostyam 521 172, Visakhapatnam, AP  
Email: ustrarani\_eee@nsr.it.edu.in  
Contact: +91 78938 14607

## ABOUT EEE

The Department of Electrical and Electronics Engineering was formed in the year 1985. The department has started various programmes with an intake intake of 3 Tech 66 in the year 2006, B.Tech 66 in the year 2010, M. Tech (Level System Control and Automation) 26 in the year 2014. The department has qualified teaching staff with 2 Ph.Ds and 1 M.Tech. The faculty members are involved in research activities and published/prospected papers in national and international journals and conferences. The department of Electrical and Electronics Engineering encompasses many technologies such as power systems, electrical machines, control systems, electromagnetics, theory and computer methods employed in all these areas, which have been using the latest growing and smart technology technologies that enable the development of the modern society. The department conducts various programs under the departmental association called as NSRITA such as Workshops, Technical Training, Seminars, Lectures and Seminars by Experts from Industry and Academic background for enhance knowledge to graduates of staff and students. We continue to play a leading role in our discipline which leads us towards creating innovative and effective professional guidance community which would maintain and provide continuous learning. The projects and progress of students and large scale industries depend upon the expertise provided by the Specialists. With rapid industrial growth in the Country, the requirement of electrical engineers has tremendously increased in Power Sector and Industries by private, PSU and Government companies. It resulted in opening of numerous opportunities for graduate Electrical Engineers.

## REGISTRATION & PAYMENT

REGISTER HERE



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## ABOUT NSRIT

Nadimolli Satyanarayana Raju Institute of Technology (Formerly known as VITL College of Engineering) was established in the year 2004 by Sri Venka Venkata Satyanarayana Educational Society. NSRIT offers quality education and technical competencies at the strong foundation of values, ideals and rich culture to the students across the country and beyond. NSRIT aims to integrate classroom learning with industry exposure to ensure the application of knowledge during the course of study itself. The objective is to prepare young students to act as leaders for the progression of the economic and educational growth of the country and to play a creative role in society. We focus on imparting skills, an ever-up-to-date technologies to our students. Quality research in the areas of science and technology is given considerable importance here. Our major strength comes by forging strong industry-academic linkage. The institute celebrates freedom of thought, initiative, vision and encourages growth and also regulates human values and concern for the environment and society.

## ABOUT WORKSHOP

A three-day Workshop on the topic "Electric Vehicle Technologies - Hands on Experience" is scheduled to take place on 20-22 December 2022 at Department of EEE, NSRIT, Visakhapatnam through hybrid mode. This workshop is providing a platform for the people from academia and research community to get insights on the recent emerging trends in EEE. The goal of the workshop is to provide a platform for participants to explore about current trend areas in Electrical Engineering.

## DELIVERABLES

Evaluation of Electric Vehicle (EVs), EV Market in India, Battery Technology, EMS, Disassembling and Assembly of EV, EV Test drive

## NSRIT CREDENTIALS

- Institution is accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade (3.0 / 4.0).
- UGC granted the status of autonomy in 2020 and the Institute is under the transition state.
- Bagged the QS 1 -Gauge E-Gearing Excellence for Academic Digitization (E - Lead) Certificate from QS with a score of 144 out of 200.
- Recognized under I (B) and II (B) of UGC Act 1956.
- Institution is rated by popular education magazines like Career 360 and Career Connect and Strong Industry - Institute Linkage.
- Recognized as a model centre for Andhra Pradesh State Council for Higher Education (APSCHE).
- Recognized under the scheme PMKVY during 2017 - 2018 & 2018 - 2019.

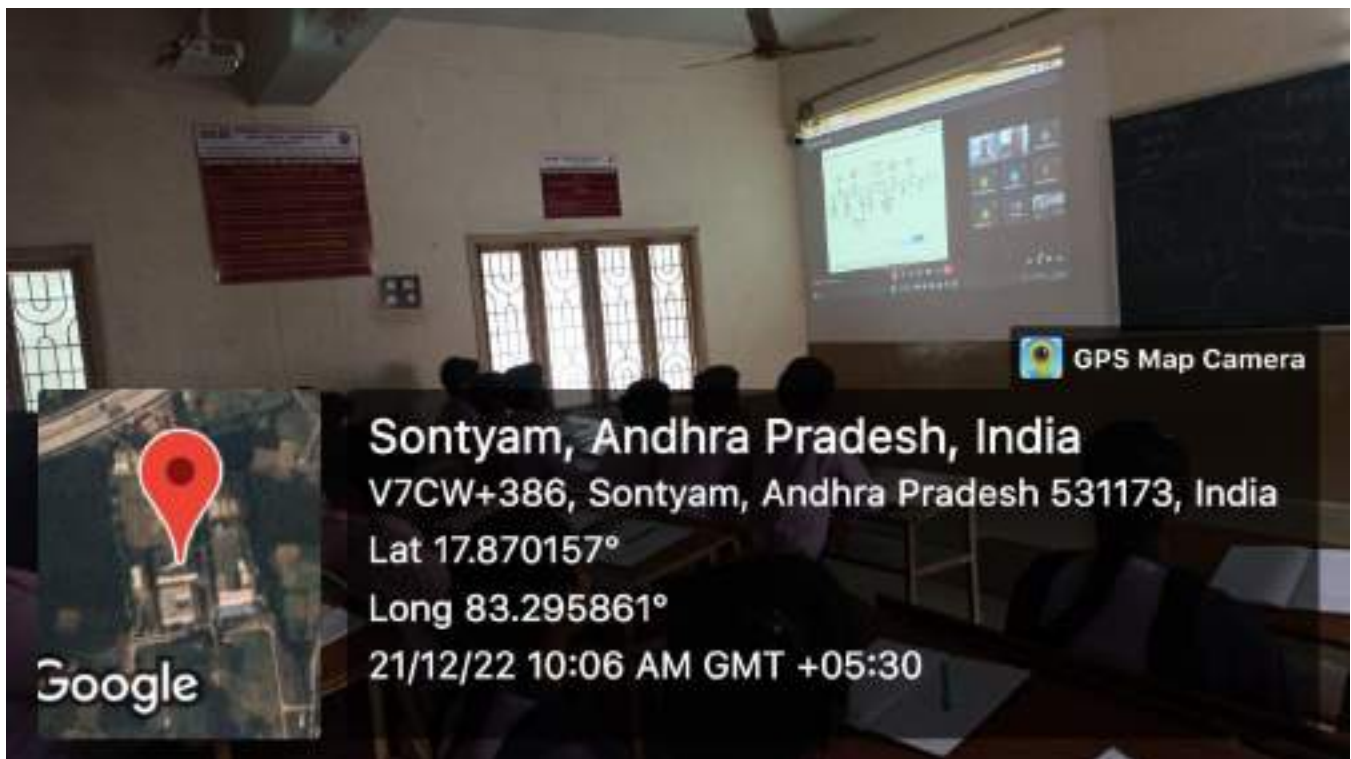


**NSRIT**

www.nsr.it.edu.in

The event has been conducted for both internal and external participants. 119 internal participants are from EEE II, III & IV year of our college, 13 external participants are from various institutions across India such as Vellore Institute of Technology-Tamil Nadu, Dr. K.N.Modi University- Rajasthan, Institute of Aeronautical Engineering-hyderabad constituting a total of 132 students and 11 faculty members. The Head of the Department, Dr. R S R Krishnam Naidu has attended the event along with all the Department staff. Dr. R. Amaleswari, Assistant Professor has hosted the event. The Head of the Department has addressed the gathering as well as thanked the Resource persons for accepting the invitation for the conduction of the event.

**Day 1:21.12.22**  
**Dr. B. Raja**



The session has been started by the resource person. The session consisted of History of Electric Vehicles (EVs). Initially First IC Engine, First gasoline engine, First generation EVs is discussed along with evolution of EV. Next World oil consumption in transportation and other sectors, World oil discovery, remaining reserves, and cumulative consumption was presented. Later an early type of electric motor which created a small model car powered by that motor, 12 kW Electrical machine for a battery-driven electric locomotive, electrical hub motor, 1.5 kW electrical motors in both of its front wheels - Batteries weighing 1.800 kg are explained. Finally, The *Volkswagen Sedric*-self-driving EV, *Toyota Concept-I* future electric car are highlighted.



GPS Map Camera



**Sontyam, Andhra Pradesh, India**  
V7CW+386, Sontyam, Andhra Pradesh 531173, India  
Lat 17.870157°  
Long 83.295861°  
21/12/22 10:05 AM GMT +05:30

Google



GPS Map Camera



**Sontyam, Andhra Pradesh, India**  
V7CW+386, Sontyam, Andhra Pradesh 531173, India  
Lat 17.870157°  
Long 83.295861°  
21/12/22 10:05 AM GMT +05:30

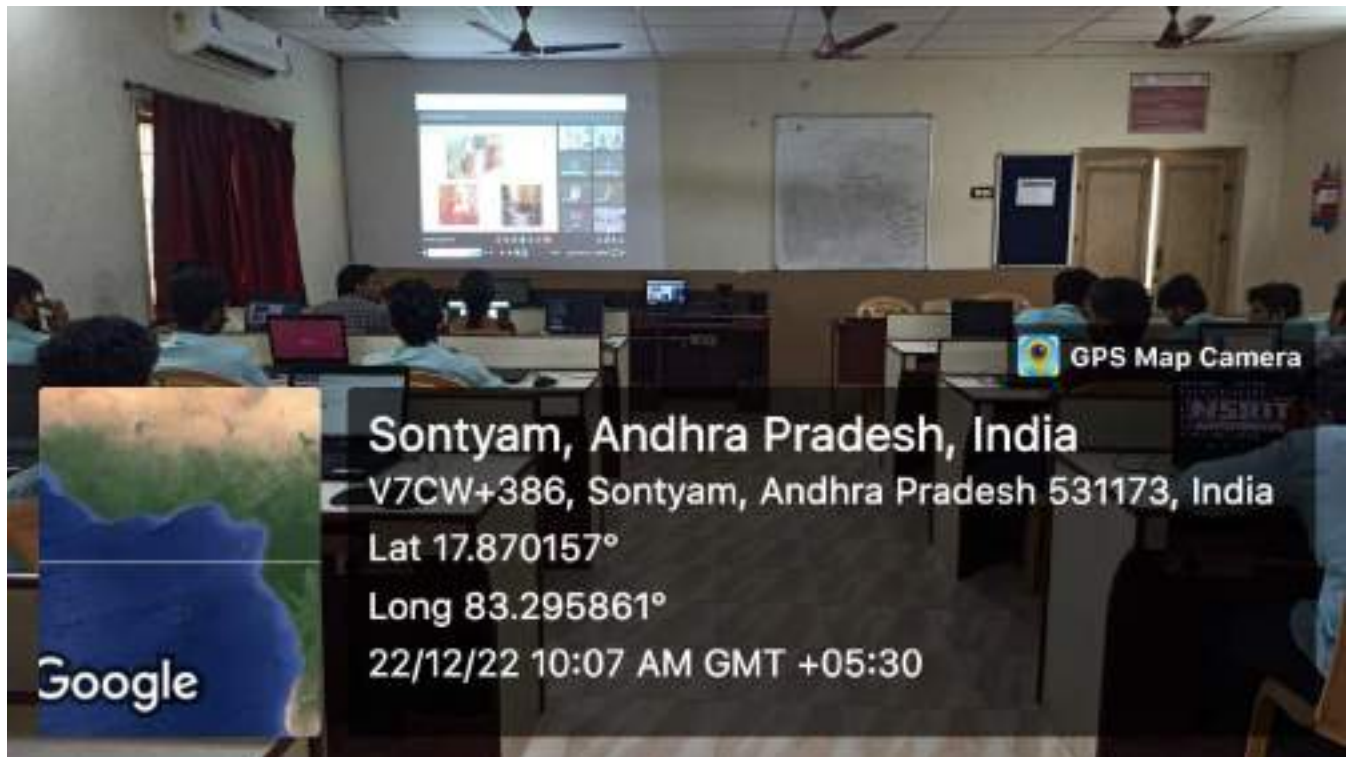
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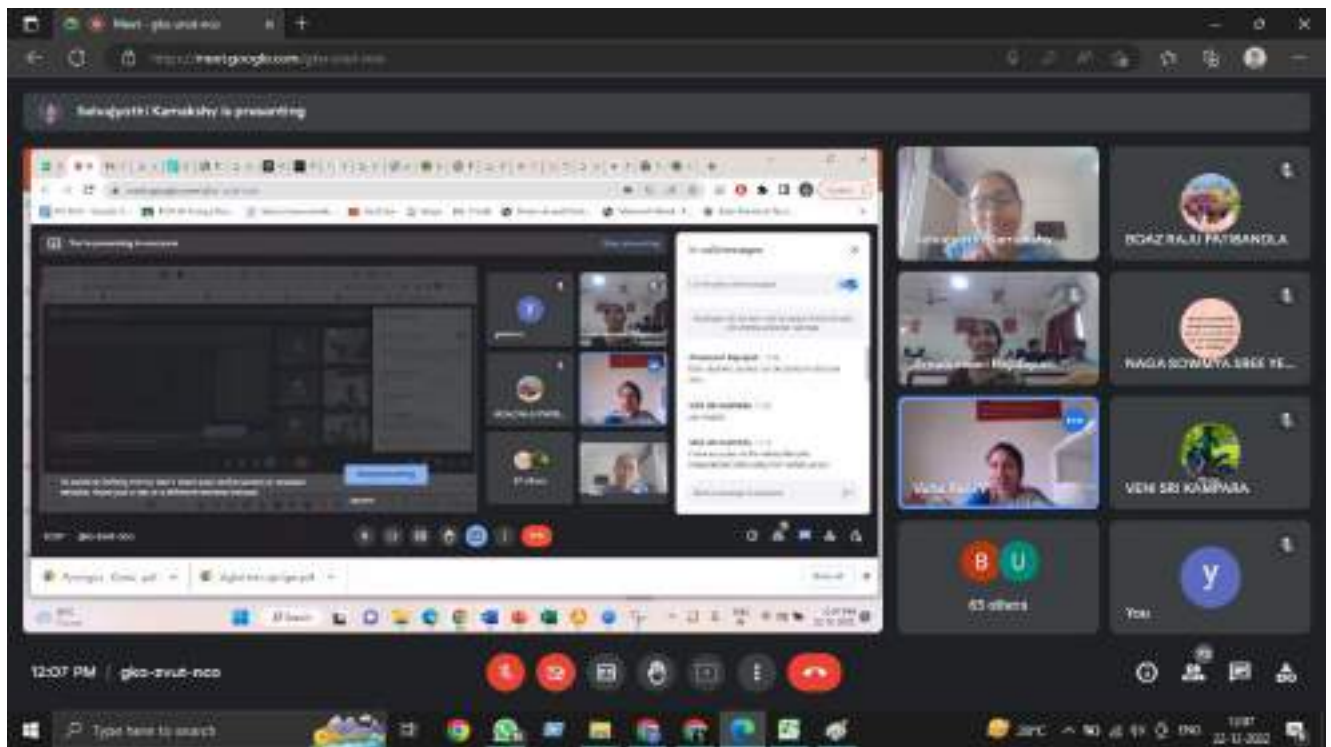


**Day 2:22.12.22**

**Dr. K. Selvajyothi**

The session has been started by the resource person. The session consisted of Battery Management System (BMS) of Electric Vehicles (EVs). The Primary functions of the Battery Management System are 1. Battery and user Safety 2. Energy Recovery 3. Battery Balancing 4. Thermal Management 5. communication. Initially Present lithium ion Battery Technology, EV Subsystems, Requirement for BMS is discussed along with Battery Performance -Cell Voltage Under Load, Open-Circuit Voltage (OCV) Model. Next Technical Terms with Batteries, Electrical Equivalent Circuit Model, Pulse Discharge Test, OLV vs DOD –From Data Sheet, Calculation of Circuit Parameters, State Space Model was presented. Later Battery Pack Topology, Battery State estimation, Functionality of BMS In EV, Sensing Voltage, Sensing Current, Sensing Temperature, Temperature Effect, Protection, Charger Control, Communication via CAN bus, Log book function, Cell Balancing, Passive Balancing : Basic Dissipative Resistor, Active Balancing : Single Switched Capacitor, Pwm Controlled Shunting, Boost Shunting, Multi Winding Transformer are explained. Finally BMS-Based cloud-integrated data acquisition Framework for EV technology is highlighted.





Day 2:22.12.22  
Dr. J. RaviKumar

The session has been started by the resource person. The session consisted of Motor Controllers for Electric Vehicles (EVs). Initially, EV existence and disappearance is discussed along with resurgence of EV and comparison of EV and ICE. Later EV impact on market, EV components, EV motors and controllers, Types of Power Electronic Converters in EVs are explained. Finally acceleration, deceleration, regenerative braking, vector control of induction motor and importance of harmonic analysis is highlighted.

Dr. R. is presenting

### Case Study

- Utilized a modified Chevy Chevette chassis and body.
- System and Characteristics:
  - Motor - Separately excited DC, 34HP, 2400 rpm.
  - Initial Battery Pack - Ni-Zn, 120V, 735 Lbs.
  - Auxiliary Battery - Ni-Zn, 14V.
  - Motor Drive - Armature DC Chopper using SCR's, Field DC Chopper using BJTs.
  - Top Speed: 60 mph.
  - Range - 60-80 miles.
  - Acceleration - 0-55 mph in 27 secs.
- This EV was used mainly as a test bed for Ni-Zn batteries.
- Over 35,500 miles of on-road testing proved that this EV is sufficiently road worthy.

Zoom meeting interface showing participants: Dr. R., GANTA POU NAD., KARRI BHASKAR RA., Anandaram's Rajap..., Rishikumar, 32 others, and You.

Dr. R. is presenting

### Types of Power Converters in Electric Vehicles

Commercial electric vehicles may be broadly classified as:

- +Battery electric vehicles (BEVs),
- +Hybrid electric vehicles (HEVs) and
- +Fuel cell vehicles (FCVs).

BEVs are purely electric vehicles (EVs), whereas HEVs combine EVs and internal combustion engines (ICEs). FCVs use power from both the battery and fuel cell stack.

The different configurations of power supply show that at least one DC/DC converter is necessary to interface the FC, the battery, or the supercapacitors module to the DC-link.

Zoom meeting interface showing participants: Dr. R., GANTA POU NAD., KARRI BHASKAR RA., ROHADA KORACK..., Anandaram's Rajap..., Rishikumar, 32 others, and You.

**Day 3: 23.12.22**  
**Mr. Venkat Reddy**

The session has been started by the resource person. The session consisted of practical exposure to 2 wheeler Electric Vehicle (EV). Initially, disassembling of EV outer casing parts, detaching of electronic components is discussed along with Disassembling & analysis of mechanical parts of EV in the morning session followed by lunch to all participants. Later in the afternoon, study on harness wiring connections, study on battery and charger are explained. Disassembling & assembling of Charger unit, total assembling of EV was done. Finally test drive on assembled EV is conducted followed by general discussion and queries.







The session has been concluded by Vote of Thanks by Dr. R. Amaleswari, Assistant Professor by thanking the Resource person and the Head of Department for conducting such a resourceful event. This hybrid event is an initiative to have more such fruitful sessions in the future.

The session was ended with National Anthem.

**HOD – EEE**  
**(Dr. R S R Krishnam Naidu)**

**DIRECTOR**  
**(Dr. J. RAJA MURUGADOSS)**

## BRIEF PROFILE



**Dr. B Raja** received B. E degree in mechanical engineering from University of Madras in the year 1997, Chennai, India, M.E. degree in Refrigeration and Air conditioning and Ph.D. degree in Boiling Heat Transfer from College of Engg, Guindy, Anna University in 2001 and 2008 respectively. He is specialized in experimental and computational thermal-fluid sciences. Now he is Associate Professor in department of Mechanical Engineering, IIITD&M (Indian Institute of Information Technology, Design and Manufacturing) Kancheepuram, Chennai (from 2009 till date). Previously, he was with Kirloskar Copeland Limited, Karad, TCS-GE, Bangalore, GE-EACoE, Bangalore and GE Cincinnati, USA.

### **Honors and Awards**

- Vice President – ESSI
- Editor – ESSI newsletter
- TVS – Empaneled Trainer – 2020 – Short Term Course on Design Thinking
- Best paper award – 2009 – IIT Madras NCRAC2009 Conference
- Best project of the month award- 2003. (at EACoE, Bangalore)
- Hats off award for Gear Box - CFD project - 2003. (at EACoE, Bangalore)
- Green Belt certification – 2003 (at EACoE, Bangalore)
- GE Shares award : Stock option grant certificate – 2002 (at EACoE, Bangalore)
- Green Belt Certified for “Development of Process map for Free Surface Flow Analyses.” (at EACoE, Bangalore)
- CFD analysis work was published in GE global website

He received 45lakhs funding from **DST – SERB and Institute seed fund** for 3 projects and completed. Currently he is working on Consortium and consultancy (2) projects with a funding of 52.5 lakhs.

He is member of IEEE, ISHRAE and Vice president of ESSI (Energy Science Society of India). He has a patent, co-authored 2 books, 37 Journal and 20 conference Publications. His research interests include Enhanced heat transfer, Thermal measurements, Electronic cooling systems, Food Processing Techniques and Design, New Product Development, Energy Storage Devices.



amaleswari r &lt;amaleswari.eee@nsrit.edu.in&gt;

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## Request for delivering Lecture for EV workshop on day 1 - Regarding

7 messages

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amaleswari r <amaleswari.eee@nsrit.edu.in>

Sat, Dec 17, 2022 at 8:17 PM

To: rajab@iiitdm.ac.in

Dear Sir,

I am Dr. R. Amaleswari working as Assistant Professor in Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT) Visakhapatnam, Andhra Pradesh, India.

We have planned a three day workshop titled "Electric Vehicles" through hybrid mode( 2days online + 1day offline) for students for the month of december at our institute through virtual mode ( 21-23 December, 2022). We are seeking experts from academic and industrial organizations to make this workshop more productive.

I would very much appreciate your permission to take your name into the speaker list for day 1 (dec 21).

The course contents for **day 1(online)** are as follows:

**Session 1: 10:00am to 11:00am**

1. History of Electric Vehicles
2. Government Schemes on Electric Vehicles
3. Top EV companies emerged in India

**Break: 11:00 to 11:15am**

**Session 2: 11:15am to 12:45pm**

4. Opportunities in EV sector
5. Market demand on 2wheeler, 3wheeler, 4wheeler EVs
6. Brief on EV charging stations

I request you to share your expertise in this area of research.

Please consider this email as a humble invitation and kindly revert back with a positive response.



Thanks and Regards,  
Dr. Amaleswari Rajulapati,  
Assistant Professor & Research Coordinator/ Department of EEE,  
NSRIT(A), <http://nsrit.edu.in/>,  
Visakhapatnam, India.  
Mob: +91 9884489614.

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**Raja Balakrishnan** <rajab@iiitdm.ac.in>  
To: amaleswari r <amaleswari.eee@nsrit.edu.in>

Mon, Dec 19, 2022 at 11:45 AM

Madam,

Thanks for the invitation. I shall take the Dec -21 (10 -11 Session ) - History of EV.

Regards  
Raja  
[Quoted text hidden]

--  
Dr. B. Raja  
Associate Professor  
IIITDM Kancheepuram  
Vandaloor-Kelambakkam Road  
Melakottaiyur, Chennai - 600 127  
Tamil Nadu, India  
Ph : +91- 44-2747 6355  
Fax : +91- 44-2747 6301  
web : [www.iiitdm.ac.in/Institute.html](http://www.iiitdm.ac.in/Institute.html)

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
To: Raja Balakrishnan <rajab@iiitdm.ac.in>

Mon, Dec 19, 2022 at 9:23 PM

Dear Sir,

Thank you very much for accepting our request.

Thanks and Regards,  
R.Amaleswari.  
[Quoted text hidden]

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>

Wed, Dec 21, 2022 at 4:58 AM

To: Raja Balakrishnan <rajab@iiitdm.ac.in>

Good morning Sir,  
I am forwarding the meeting link for today's lecture session.  
Topic: History of Electric Vehicles  
Date and Time: 21.12.22, Wednesday, 10:00 AM to 11:00 AM

<https://meet.google.com/gko-zvut-nco>

Thanks and Regards,  
Dr. Amaleswari Rajulapati,  
Assistant Professor / EEE,  
NSRIT(A), <http://nsrit.edu.in/>,  
Visakhapatnam, India.  
Mob: +91 9884489614.

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**Raja Balakrishnan** <rajab@iiitdm.ac.in>  
To: amaleswari r <amaleswari.eee@nsrit.edu.in>

Wed, Dec 21, 2022 at 10:51 AM

[Quoted text hidden]

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 **History of EV.pdf**  
1771K

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
To: Raja Balakrishnan <rajab@iiitdm.ac.in>

Thu, Dec 22, 2022 at 2:44 PM

Dear Sir,

Thank you very much for the informative session and the material provided.  
Students felt the session very useful as most of them are not aware of history of EVs.

We look forward for having more sessions in upcoming activities of our department.

Thank you,

1/7/23, 12:48 PM

Nadimpalli Satyanarayana Raju Institute of Technology Mail - Request for delivering Lecture for EV workshop on day 1 - Regarding

R.Amaleswari.  
[Quoted text hidden]

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**Raja Balakrishnan** <rajab@iiitdm.ac.in>  
To: amaleswari r <amaleswari.eee@nsrit.edu.in>

Thu, Dec 22, 2022 at 5:50 PM

Sure

Regards  
Raja  
[Quoted text hidden]

## BRIEF PROFILE



**Dr. Selvajyothi K** received B. Tech degree in electrical and electronics engineering from the University of Kerala, Thiruvananthapuram, India, in 1995, M.E. degree in power electronics and industrial drives from Satyabhama Institute of Science and Technology, Chennai, India, in 2004, and Ph.D. degree in electrical engineering from IIT Madras, Chennai, in 2009. Now she is faculty in department of ECE, IITD&M (Indian Institute of Information Technology, Design and Manufacturing) Kancheepuram, Chennai. She has 20 years teaching experience and 17 years research experience. She is a life member of ISTE, member in IIS, IEEE, SAEINDIA and ESSI. She has co-authored 4 books, 17 Journals and 19 conference Publications. She was Co Chair / School of Computer Science and Electrical Engineering (June 2017-Jan 2018) and HOD/ Dept of ECE (Jan 2018-June 2019). Also handled numerous positions such as UG admission coordinator (2009-2011), Warden-Girls hostel (2010-2013), Placement coordinator (2012-2014), PG Admission i/c, PhD Admission i/c, Invited Lectures Prof i/c, member in disciplinary committee (2017-2019).

Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received "Research fellowship in the University of Padova, Italy in 2009". Also received "Best paper award in Technical session 1.1 of CIEC 2016". She is an active reviewer of various reputed journals.



amaleswari r &lt;amaleswari.eee@nsrit.edu.in&gt;

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## Request for delivering Lecture for EV workshop on day 1 - Regarding

11 messages

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amaleswari r <amaleswari.eee@nsrit.edu.in>  
To: Selvajyothi Kamakshy <ksjyothi@iiitdm.ac.in>

Wed, Nov 23, 2022 at 7:40 AM

Dear Mam,

Good Morning!

We are planning a "3 day workshop on Electric Vehicles" at our institute through hybrid mode( 2days online + 1day offline) for EEE students for the month of december.

The course contents for **day 1(online)** are as follows:

**Session 1: 9:30am to 11:00am**

1. History of Electric Vehicles
2. Government Schemes on Electric Vehicles
3. Top EV companies emerged in India

**Break: 11:00 to 11:15am**

**Session 2: 11:15am to 12:45pm**

4. Opportunities in EV sector
5. Market demand on 2wheeler, 3wheeler, 4wheeler EVs
6. Brief on EV charging stations

The course contents for **day 2(online)** are as follows:

**Session 1: 9:30 to 11:00am**

1. Description of 2wheeler - EV parts
2. Brief on Battery technology used in EVs
3. Battery Management system

**Break: 11:00 to 11:15am**

**Session 2: 11:15am to 12:45pm**

4. Types of motors used in EVs
5. Types of Chassis used in EVs
6. Display of EV components

The course contents for **day 3 (offline mode in NSRIT, Vizag)** by **Vihaan Electrix company** located in **Vizag** are as follows:

**Session 1: 9:00am to 12:00pm**

1. Disassembling of EV outer casing parts
2. Detaching of electronic components
3. Disassembling & analysis of mechanical parts
4. Study on Harness wiring connections
5. Study on Battery and Charger
6. Disassembling & Assembling of Charger Unit

**Lunch break: 12:00 to 1:00pm**

**Session 2: 1:00pm to 4:00pm**

7. Total assembling of EV
8. Test drive on assembled EV
9. General Discussion and Queries

I request you to share your expertise in this area of research for **day 1 of workshop**. Please suggest your possible date for the month of december so that we will schedule the workshop in those days.

Also I request you to suggest another resource person for **day 2 workshop**.

Please consider this email as a humble invitation and kindly revert back with a positive response.

Thanks and Regards,

Dr. Amaleswari Rajulapati,

Assistant Professor / EEE,

Dr. Amaleswari Rajulapati,  
Assistant Professor & Research Coordinator/ Department of EEE,  
NSRIT(A), <http://nsrit.edu.in/>,  
Visakhapatnam, India.  
Mob: +91 9884489614.  
[Quoted text hidden]

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**Selvajyothi Kamakshy** <[ksjyothi@iiitdm.ac.in](mailto:ksjyothi@iiitdm.ac.in)>  
To: amaleswari r <[amaleswari.eee@nsrit.edu.in](mailto:amaleswari.eee@nsrit.edu.in)>

Thu, Dec 8, 2022 at 9:19 PM

Ok. Pl let me know the timing.  
[Quoted text hidden]

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**amaleswari r** <[amaleswari.eee@nsrit.edu.in](mailto:amaleswari.eee@nsrit.edu.in)>  
To: Selvajyothi Kamakshy <[ksjyothi@iiitdm.ac.in](mailto:ksjyothi@iiitdm.ac.in)>

Fri, Dec 9, 2022 at 9:52 AM

Dear Mam,

Thank you very much.  
I will update you shortly regarding timing slots.

Thanks and Regards,  
R.Amaleswari.

[Quoted text hidden]

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**Selvajyothi Kamakshy** <[ksjyothi@iiitdm.ac.in](mailto:ksjyothi@iiitdm.ac.in)>  
To: amaleswari r <[amaleswari.eee@nsrit.edu.in](mailto:amaleswari.eee@nsrit.edu.in)>

Tue, Dec 13, 2022 at 1:13 PM

Amaleswari,  
I have a review meeting falling on 20th. Could you pl reschedule mine for 22nd?

Thanks  
Dr K.Selvajyothi  
[ksjyothi@iiitdm.ac.in](mailto:ksjyothi@iiitdm.ac.in)  
Department of Electronics and Communication Engineering  
IIITD&M Kancheepuram  
off [Vandalur - Kelambakkam Road, Chennai-127](#)  
Ph: 91-44-2747 6348

[Quoted text hidden]

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
To: Selvajyothi Kamakshy <ksjyothi@iiitdm.ac.in>

Thu, Dec 22, 2022 at 9:02 AM

Good morning mam,

I am forwarding the meeting link for today's lecture session.

Topic: BMS in Electric Vehicles

Date and Time: 22.12.22, Thursday, 10:00 AM to 11:30 AM

<https://meet.google.com/gko-zvut-nco>

Thank you,  
Amaleswari.

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**Selvajyothi Kamakshy** <ksjyothi@iiitdm.ac.in>  
To: amaleswari r <amaleswari.eee@nsrit.edu.in>

Thu, Dec 22, 2022 at 1:50 PM

Dr. Amaleswari,  
PFA presentation on BMS. Please share this to students.

Thanks and Regards

Dr K.Selvajyothi

[ksjyothi@iiitdm.ac.in](mailto:ksjyothi@iiitdm.ac.in)

Department of Electronics and Communication Engineering

IIITD&M Kancheepuram

off Vandalur - Kelambakkam Road, Chennai-127

Ph: 91-44-2747 6348

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 **WORKSHOP\_EV\_NSRLT\_BMS.pdf**  
3182K

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
To: Selvajyothi Kamakshy <ksjyothi@iiitdm.ac.in>

Thu, Dec 22, 2022 at 2:37 PM



## BRIEF PROFILE



Dr. Ravi Kumar Jujjuvarapu was born in Andhra Pradesh, India, in 1978. He received a Bachelor's degree from Andhra University in Electrical and Electronics Engineering, a Master's degree from Jawaharlal Nehru Technological University in Power Electronics and Industrial Drives in 2001 and 2007 respectively, and Ph.D. from Acharya Nagarjuna University, India in 2018.

Now he is working with Zoe Talent Solutions, Dubai, UAE to train electrical and electronics professional engineers of various global companies. **He has 12 years** of experience in teaching & training electrical engineering programs to Middle East Oil & Gas professionals (**QP, PDO, ADNOC, ETIHAD RAIL**), **5 years** of experience in academic teaching of undergraduate and post graduate engineering programs, **6 years** experience as **IQA** and actively involved in IQA team development at ADVETI.

He has excellent capabilities in use and configure of **LMS (D2L / Blackboard)**, highly experienced in delivering TAFE, OPITO, ECITB and NQA UAE curriculum. He is **Certified ECITB** Instructor for Electrical and Electronics Engineering programs, Certified CLIL Instructor - Content and Language Integrated Learning (**CLIL**) methodology.

He was awarded **Young Scientist Fellowship** by Directorate of Science and Technology, HRD Ministry of India for research project on **Variable Speed Drive Systems** with financial grant. He has received **UAE GOLDEN VISA** under Talented Professionals category.

He is a Senior IEEE member, member of International Engineers Association (IAENG) and reviewer for various international journals. His research and teaching interests are in modeling, design, and control of electric motors and drives for industrial and alternate energy applications. He has published research articles in various international journals/conferences.



amaleswari r &lt;amaleswari.eee@nsrit.edu.in&gt;

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## Request for delivering Lecture for EV workshop on day 2 - Regarding

3 messages

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amaleswari r <amaleswari.eee@nsrit.edu.in>

Wed, Dec 21, 2022 at 5:08 AM

To: rkanna2006@gmail.com

Dear Sir,

I am Dr. R. Amaleswari working as Assistant Professor in Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT) Visakhapatnam, Andhra Pradesh, India.

We have planned a three day workshop titled "Electric Vehicles" through hybrid mode( 2days online + 1day offline) for students for the month of december at our institute through virtual mode ( 21-23 December, 2022). We are seeking experts from academic and industrial organizations to make this workshop more productive.

I would very much appreciate your permission to take your name into the speaker list for day 2 (dec 22).

The course contents for **day 2(online)** are as follows:

**Time: 1:30 PM to 3:00PM**

**Topic: Battery Chargers and Motor Drives in EV**

I request you to share your expertise in this area of research.

Please consider this email as a humble invitation and kindly revert back with a positive response.

Thanks and Regards,

Dr. Amaleswari Rajulapati,

Assistant Professor & Research Coordinator/ Department of EEE,

NSRIT(A), <http://nsrit.edu.in/>,

Visakhapatnam, India.

Mob: +91 9884489614.

**amaleswari r** <amaleswari.eee@nsrit.edu.in>

To: rkanna2006@gmail.com

Thu, Dec 22, 2022 at 5:40 AM

Good morning Sir,

As per our conversation over phone, thank you for accepting our invitation in short notice.

I am forwarding the meeting link for today's lecture session.

**Topic: Battery Chargers and Motor Drives in EV**

Date and Time: 22.12.22, Thursday, 1:30 PM to 3:00 PM

<https://meet.google.com/gko-zvut-nco>

Thanks and Regards,

Dr. Amaleswari Rajulapati,

Assistant Professor / EEE,

NSRIT(A), <http://nsrit.edu.in/>,

Visakhapatnam, India.

Mob: +91 9884489614.

[Quoted text hidden]

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>

To: rkanna2006@gmail.com

Fri, Dec 23, 2022 at 5:04 AM

Dear Sir,

Thank you very much for the informative session and the material provided.

You gave more insight on combined role of power electronics and drives in present EVs which is very useful to students.

We look forward for having more sessions in upcoming activities of our department.

Thank you,

R.Amaleswari.

[Quoted text hidden]

SL NO	ROLL NO	Name	21.12.22	22.12.22	23.12.22
1	21NU1A0201	ANIK DAS	Anik Das	Anik Das	Anik Das
2	21NU1A0202	ANUPOJU RAHUL	Rahul	Rahul	Rahul
3	21NU1A0203	ARIGI DEVI	A. Devi	A. Devi	A. Devi
4	21NU1A0204	ATTILI ROHITH RAMACHANDRA GOWDU	A. Rohith	A. Rohith	A. Rohith
5	21NU1A0205	BANTU GNANA CHANDRA SEKHA	B. Chandrashekhara	B. Chandrashekhara	B. Chandrashekhara
6	21NU1A0206	BAVARAJU JAHNAVI	B. Jahnavi	B. Jahnavi	B. Jahnavi
7	21NU1A0207	BHAVISETTY VARA PRASAD	B. Varaprasad	B. Varaprasad	B. Varaprasad
8	21NU1A0208	BIPIN KUMAR SHA	Bipin Kumar	Bipin Kumar	Bipin Kumar
9	21NU1A0209	BOINA SATHVIKA	Sathvika	Sathvika	Sathvika
10	21NU1A0210	BONANGI PAVAN KALYAN	Pavan Kalyan	Pavan Kalyan	Pavan Kalyan
11	21NU1A0211	CHALLA SASI VARDHAN RAO	← ABS →	← ABS →	← ABS →
12	21NU1A0212	CHAVAKULA KUNJAR	C.H. Kunjar	C.H. Kunjar	C.H. Kunjar
13	21NU1A0213	DAKARAPU SAI MILIND	MILIND	MILIND	MILIND
14	21NU1A0215	DAMARSINGH HARSHAVARDHAN	D. Harsha	D. Harsha	D. Harsha
15	21NU1A0216	DHARMI REDDY PUSHPAJA	D. Pushpaja	D. Pushpaja	D. Pushpaja
16	21NU1A0217	DOKALA SARAN KUMAR	D. Saran Kumar	D. Saran Kumar	D. Saran Kumar
17	21NU1A0218	GANTA POLI NAIDU	G. Polinaidu	G. Polinaidu	G. Polinaidu
18	21NU1A0219	JAKA BRAJAN KUMAR	←		→
19	21NU1A0220	KARAKA JITHENDRA	K. Jithendra	K. Jithendra	K. Jithendra
20	21NU1A0221	KOYYADA LIKHITHA	K. Likhitha	K. Likhitha	K. Likhitha
21	21NU1A0222	KAREDLA MOHAN MADHU BALA	K. Madhu Bala	K. Madhu Bala	K. Madhu Bala
22	21NU1A0223	KARI MAHESH	K. Mahesh	K. Mahesh	K. Mahesh
23	21NU1A0224	KARRI BHASKAR RAO	K. Bhaskar	K. Bhaskar	K. Bhaskar
24	21NU1A0225	KEMBURU KARTHIK	K. Kartik	K. Kartik	K. Kartik
25	21NU1A0226	KINTALI ASHWINI	K. Ashwini	K. Ashwini	K. Ashwini
26	21NU1A0227	MANDALA MUKESH	M. Mukesh	M. Mukesh	M. Mukesh
27	21NU1A0228	MALLAREDDI LALITH KUMAR	M. Lalith	M. Lalith	M. Lalith
28	21NU1A0229	MAMIDI BHANU	M. Bhanu	M. Bhanu	M. Bhanu
29	21NU1A0230	MIRIYAPALLI SAI KRISHNA	M. Sai Krishna	M. Sai Krishna	M. Sai Krishna
30	21NU1A0231	MUTNURU GAYATRI	← ABS →	← ABS →	← ABS →
31	21NU1A0233	NAGUBILLI SUIJATHA	N. Sujatha	N. Sujatha	N. Sujatha
32	21NU1A0234	NAKKA HIMA KIRAN	N. Himakiran	N. Himakiran	N. Himakiran
33	21NU1A0235	NANDURI DEVI KIRAN	N. Devi Kiran	N. Devi Kiran	N. Devi Kiran
34	21NU1A0236	PAMBALA MANIKANTA GANESH	P. Manikanta	P. Manikanta	P. Manikanta

35	21NU1A0237	PATTIMI PARAMESH	P. Parama	P. Parama	P. Parama
36	21NU1A0239	PADALA KANCHANA SAI GOWTHAMI	P.K.S Gowthami	P.K.S Gowthami	P.K.S Gowthami
37	21NU1A0240	PAISAKA ROHIT ROY	← AB →	← AB →	← AB →
38	21NU1A0241	PALAVALASA SIRI	P. Siri	P. Siri	P. Siri
39	21NU1A0242	PALLI RADHIKA	P. Radhika	P. Radhika	P. Radhika
40	21NU1A0243	PATABALLA TEJA SANDEEP	P. Teja Sandeep	P. Teja Sandeep	P. Teja Sandeep
41	21NU1A0244	PENTAPATI SIVA RAMESH	← AB →	← AB →	← AB →
42	21NU1A0245	PONTHAPALLI BHAGYA LAKSHMI	P. Bhagya	P. Bhagya	P. Bhagya
43	21NU1A0246	POTTI KRISHNA VARDHAN	P.K. Vardhan	P.K. Vardhan	P.K. Vardhan
44	21NU1A0247	PRASADULA DEEPTHI	P. Deepthi	P. Deepthi	P. Deepthi
45	21NU1A0248	RAPARTHI KARTHIK	R. Karthik	R. Karthik	R. Karthik
46	21NU1A0249	SABBAVARAPU POORNA CHANDRA RAO	S. Chandra Rao	S. Chandra Rao	S. Chandra Rao
47	21NU1A0250	SARAGADAM YESWANTH	S. Yeswanth	S. Yeswanth	S. Yeswanth
48	21NU1A0251	SARIPALLI MANIKANTA SWAMY	S. Manikanta	S. Manikanta	S. Manikanta
49	21NU1A0253	SUDABATHULA KETHAN SUBHASH	S. Kethan	S. Kethan	S. Kethan
50	21NU1A0254	TAMATAPU UPENDRA	T. Upendra	T. Upendra	T. Upendra
51	21NU1A0255	TEEGALA SRAVANTHI	T. Sravanthi	T. Sravanthi	T. Sravanthi
52	21NU1A0256	UPPALAPATI VARSHITHA	U. Varshitha	U. Varshitha	U. Varshitha
53	21NU1A0257	VARRI DIWAKAR	V. Diwakar	V. Diwakar	V. Diwakar
54	21NU1A0258	VAVILAPALLI CHANDRA SEKHAR	V. Chandra Sekhar	V. Chandra Sekhar	V. Chandra Sekhar
55	20NU1A0206	BADITHAMANI R.S.S.V.SAI VIGNESH	←	←	←
56	22NUSA0201	BANTUBILLI CHANDU	B. Chandu	B. Chandu	B. Chandu
57	22NUSA0202	BODDAKAYALA SWATHI KUMAR	B. Swathi Kumar	B. Swathi Kumar	B. Swathi Kumar
58	22NUSA0203	BODDAPADU SAI KIRAN	B. Sai Kiran	B. Sai Kiran	B. Sai Kiran
59	22NUSA0204	CHIKKALA MOHAN VASU KIRAN	Ch. Mohan	Ch. Mohan	Ch. Mohan
60	22NUSA0205	CHINTHALA BHAVYA	Ch. Bhavya	Ch. Bhavya	Ch. Bhavya
61	22NUSA0206	DADI RAVI TEJA	D. Ravi Teja	D. Ravi Teja	D. Ravi Teja
62	22NUSA0207	KORADA NARENDRA	K. Narendra	K. Narendra	K. Narendra
63	22NUSA0208	MEESALA GNANESWAR	M. Gnaneswar	M. Gnaneswar	M. Gnaneswar
64	22NUSA0209	NAKKA VEERA KANAKA MAHA LAXMI	N. Mahalakshmi	N. Mahalakshmi	N. Mahalakshmi
65	22NUSA0210	NARAYANAPURAM GANESH	N. Ganesh	N. Ganesh	N. Ganesh
66	22NUSA0211	PANASA SIVA	P. Siva	P. Siva	P. Siva
67	22NUSA0212	PATNALA NANDINI	P. Nandini	P. Nandini	P. Nandini
68	22NUSA0213	SEERAMSETI LEELA PRASANTH	S. Prasanth	S. Prasanth	S. Prasanth
69	22NUSA0214	BARLA VEERESH MANIKANTA	B. Veeresh	B. Veeresh	B. Veeresh

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
III EEE, VI SEMESTER**

EV Workshop 21.12.22 - 23.12.22

Sl.No	Roll No	Name of Candidate	21.12.22	22.12.22	23.12.22
1	20NUIA0201	ADAPUREDDI DIVYA	A. Divya	A. Divya	A. Divya
2	20NUIA0202	ADINULAM BHAGYATI	A. Bhagati	A. Bhagati	A. Bhagati
3	20NUIA0203	ALLA POLI VINAY	A. Polivray	A. Polivray	A. Polivray
4	20NUIA0204	ALLADI AKSHAY	←	←	←
5	20NUIA0205	APPIKONDA ASWINI	A. Aswini	A. Aswini	A. Aswini
6	20NUIA0207	CHIAPPA CHUDAMANI	Chudamani	chudamani	chudamani
7	20NUIA0208	CHINTHALA JANANI	ChJanani	ChJanani	ChJanani
8	20NUIA0209	D TARUN CHANDRA YUVARAJ	←	←	←
9	20NUIA0210	DAMMU DINESH	D. Dinesh	D. Dinesh	D. Dinesh
10	20NUIA0211	GOLLAVILLI MANI DEEPAK	G. Manideepak	G. Manideepak	G. Manideepak
11	20NUIA0212	GORJE SRINIVAS	G. Srinivah	G. Srinivah	G. Srinivah
12	20NUIA0213	GOTTAPU DIVYA	G. Divya	G. Divya	G. Divya
13	20NUIA0214	ITHAMSETTY JANARDHAN KUMAR	I. Janardhan	I. Janardhan	I. Janardhan
14	20NUIA0215	JAKKANA ASHOK	J. Ashok	J. Ashok	J. Ashok
15	20NUIA0216	KALLA VAMSI KRISHNA	K. Vamsi	K. Vamsi	K. Vamsi
16	20NUIA0217	KARAKA REVATHI	K. Revathi	K. Revathi	K. Revathi
17	20NUIA0218	KASSEY DELISHI SAI CHARAN	K. Sai	K. Sai	K. Sai
18	20NUIA0219	KENGUYA UMA MAHESWAR	K. Uma	K. Uma	K. Uma
19	20NUIA0220	MIRTHIPATI LOKESH	M. Lokesh	M. Lokesh	M. Lokesh
20	20NUIA0221	NAKKELLA DIVYA	N. Divya	N. Divya	N. Divya
21	20NUIA0222	NIRUJOGI RAMESH	N. Ramesh	N. Ramesh	N. Ramesh
22	20NUIA0223	PEMMADI UDAY SRINIVAS	P. UdaySrinivas	P. UdaySrinivas	P. UdaySrinivas
23	20NUIA0224	PINISETTI YERNI BABY	P. YerniBaby	P. YerniBaby	P. YerniBaby
24	20NUIA0225	SALAPU VASANTHI	S. Vasanthi	S. Vasanthi	S. Vasanthi
25	20NUIA0226	SIMMA YUGANDHAR	S. Yugandhar	S. Yugandhar	S. Yugandhar
26	20NUIA0227	YELLAPU NAGA SOMMYA SREE	Y. Sommya	Y. Sommya	Y. Sommya
27	21NUSA0201	BEVARA PRIYANKA	B. Priyanka	B. Priyanka	B. Priyanka
28	21NUSA0202	BUDDHA RAKESH	B. Rakesh	B. Rakesh	B. Rakesh
29	21NUSA0203	DHARMANA VENKATA SAI RAKISH	D. Rakesh	D. Rakesh	D. Rakesh
30	21NUSA0204	DODDI SINDHUJA	D. Sindhuja	D. Sindhuja	D. Sindhuja
31	21NUSA0205	GAJULA NISHANK BABA	G. Nishankbaba	G. Nishankbaba	G. Nishankbaba
32	21NUSA0206	K N JAGANNADHA LOKISHI VARMA	K. Lokesh	K. Lokesh	K. Lokesh
33	21NUSA0207	NEELAPU CHARAN KUMAR REDDY	←	←	←
34	21NUSA0208	PALURI SAI VENKATA TEJA	P. S. V. Teja	P. S. V. Teja	P. S. V. Teja

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INSTITUTE OF TECHNOLOGY  
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Established under Section 3 of the I.T. Act, 1947. Accredited by NBA & PCI

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IV SEM, VIII SEMESTER

IV Workshop 21.12.22 - 23.12.22

Sl.No	Roll No	Name of Candidate	21.12.22	22.12.22	23.12.22
1	19NU1A0201	BOBBILI VARSHINI SIVA SANTHOSHII	B. Varshini	B. Varshini	B. Varshini
2	19NU1A0202	CHELLUDINA HARI SATYA TEJA	Chelluri	Chelluri	Ch. Satya Teja
3	19NU1A0203	JONNADA SATYA	J. Satya	J. Satya	J. Satya
4	19NU1A0204	KALLA HARSHAVARDHAN	K. Harshavardhan	K. Harshavardhan	K. Harshavardhan
5	19NU1A0205	KANCHIPATI PRASAD	K. Prasad	K. Prasad	K. Prasad
6	19NU1A0207	KOPPOJU SAI BRAHMAJI	K. Sai Brahmaji	K. Sai Brahmaji	K. Sai Brahmaji
7	19NU1A0208	LENKA DINESH MANIKANTA	L.O. Manikanta	L.O. Manikanta	L.O. Manikanta
8	19NU1A0210	PAVADA ANIL KUMAR	← AB →	← AB →	← AB →
9	19NU1A0211	REDDIPALLI HIMANSHU	R. Himanshu	R. Himanshu	R. Himanshu
10	19NU1A0213	SRIKAKULAPU CHINNI HARISH	S. Chinni Harish	S. Chinni Harish	S. Chinni Harish
11	20NU5A0201	ADARI VARAHA VENKATA JAGADEESWARANMA	A. Jagadeeswarana	A. Jagadeeswarana	A. Jagadeeswarana
12	20NU5A0202	AINAMPUDI NARENDRA VARMA	A. Narendra	A. Narendra	A. Narendra
13	20NU5A0203	BALIBANI PAVAN KUMAR	B. Pavan Kumar	B. Pavan Kumar	B. Pavan Kumar
14	20NU5A0204	BOOIREDDY CHANDRA SEKHA REDDY	B. Chandra Sekha Reddy	B. Chandra Sekha Reddy	B. Chandra Sekha Reddy
15	20NU5A0205	BOIDA VIJAYA KUMAR	B. Vijaya Kumar	B. Vijaya Kumar	B. Vijaya Kumar
16	20NU5A0206	CHODIPILLI VENKATA SATYA MADHU	← AB →	← AB →	← AB →
17	20NU5A0207	CHUKALA SRINU	Ch. Srinu	Ch. Srinu	Ch. Srinu
18	20NU5A0208	DARMISETTI MOULI	D. Mouli	D. Mouli	D. Mouli
19	20NU5A0209	KAMPARA VENI SRI	K. Veni Sri	K. Veni Sri	K. Veni Sri
20	20NU5A0210	KANDREGULA JAYANTH	← AB →	← AB →	← AB →
21	20NU5A0211	KATIPALLI AJAY KUMAR	K. Ajay	K. Ajay	K. Ajay
22	20NU5A0212	KUNDRAJU ANUSHA	K. Anusha	K. Anusha	K. Anusha
23	20NU5A0213	MIRTHPATI GANESH KUMAR	M. Ganesh	M. Ganesh	M. Ganesh
24	20NU5A0214	MYLAPALLI RAMESH	M. Ramesh	M. Ramesh	M. Ramesh
25	20NU5A0215	PATIBANDLA BOAZ RAJU	P. Boaz Raju	P. Boaz Raju	P. Boaz Raju
26	20NU5A0216	SATYAVARAPU DURGA TARUN	S. Durga Tarun	S. Durga Tarun	S. Durga Tarun



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY

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Recognized under Section 2(f) & 12(B) of the UGC Act, 1956 | Accredited by NAAC with 'A' Grade

Date: 15-03-2023 to 17-03-2023

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### Report on “3 day workshop on “Application of Arduino & ESP 32 Micro Controller in Multidisciplinary Engineering”

The Department of Electrical & Electronics Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous) has conducted a “3 day hybrid workshop on Applications of Arduino & ESP 32 Micro Controller in Multidisciplinary Engineering” from 15<sup>th</sup> - 17<sup>th</sup> March 2023 at Block – I, CP Lab. The resource persons were Mr. M. Satish / Tierra Automation.

### Resource Person : Tierra Automation

#### Profile:

Tierra Automation is a leading technology company that specializes in providing innovative IoT, Industrial Automation, and Robotics solutions. Established in 2019, our company has successfully completed 14 industrial projects, 500+ security projects, and trained over 900 students in these technologies.

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**CHIEF PATRON**  
Shri. N. Satyanarayana Raju  
Chairman, NSRIT

**PATRON**  
Dr. N. Prasad Raju, Secretary, NSRIT  
Shri. N. Kanaka Raju, Treasurer, NSRIT  
Dr. J. Raja Murugadoss, Director, NSRIT

**PROGRAM CHAIR**  
Dr. R.S.R. Krishnam Naidu, HOD (EEE)

**CONVENOR**  
Dr. R. Amalawari, Assistant Professor (EEE)

**MEMBERS**  
Mr. K.S. Ramanjaneyulu, Associate Professor (EED)  
Mr. K.M.M. Tarakesh, Assistant Professor (EED)  
Mr. P. Mahesh, Assistant Professor (EEE)  
Mrs. V. Usha Rani, Assistant Professor (EEE)  
Mr. A. Bala Raja Ram, Assistant Professor (EED)  
Mr. B. Divakar, Assistant Professor (EEE)  
Mrs. S. Yamini, Assistant Professor (EEE)  
Mr. C. Naveen, Assistant Professor (EEE)  
Mrs. D. Sanithya Devi, Assistant Professor (EED)  
Dr. R. Amalawari, Assistant Professor (EEE)

**DEPT. OF ELECTRICAL & ELECTRONICS ENGINEERING**

**3- DAY'S WORKSHOP ON "APPLICATION OF ARDUINO & ESP32 IN MULTIDISCIPLINARY ENGINEERING"**

FROM MARCH 15 - 17, 2023  
REGISTRATION FEE: RS.500  
Mr. Satish Musirana  
Founder & CEO  
Tierra Automation

**Contact Us**

Faculty Co-ordinator: Dr. R. Amalawari, Asst. Prof (EEE)  
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Student Co-ordinator: K. Uma Maheswar  
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Phone: 9330282882

Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT),  
Bantypore (621135), West Godavari, AP

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## ABOUT EEE

The Department of Electrical and Electronics Engineering was formed in the year 2004. The department has started various programs with an intake intake of 60 from EE in the year 2008 (Diploma EE) in the year 2012. In Techno-Driven Systems, Control and Instrumentation in the year 2014. The Department has qualified teaching staff with PhDs and M.Tech. The faculty members are involved in research activities and publications in various journals, national and international journals and conferences. The department of Electrical and Electronics Engineering encompasses many technologies, such as power systems, electrical machines, control systems, electronics theory, and computer methods employed in all these areas, what have been among the famous groups and next challenging technologies that enable the development of the modern society. The department conducts various programs under the departmental activities called as AINWA such as Workshops, Technical Training Camps, Seminars, Summer Internships, Industry and Academic background for constant knowledge up-gradation of staff and students. We continue to play a leading role in our discipline with focus towards creating innovative and effective professional graduate community which would excel in and promote continuous learning. The growth and progress of Mysuru and large scale industries depend upon the expertise provided by the specialists. With rapid industrial growth in the country, the requirement of electrical engineers has tremendously increased in Power Sector and industries in general. This and Government companies, it includes a variety of services and opportunities to graduate electrical engineers.

## REGISTRATION & PAYMENT

REGISTER HERE



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## ABOUT NSRIT

Nadrapalli Subyanarayana Raja Institute of Technology (Formerly known as VITS College of Engineering) was established in the year 2008 by Sri Sri Venkateswara Sarwanarayana Educational Society. NSRIT offers quality education and technical competencies on the strong foundation of values, ethics and tech culture to the students across the country and beyond. NSRIT attempts to integrate classroom learning with industry exposure to ensure the application of knowledge during the course of study itself. The objective is to prepare young students to act as leaders for the promotion of the economic and industrial growth of the country and to play a creative role in society. We focus on imparting skills on cutting edge technologies to our students. Quality research in the areas of science and technology is given considerable importance here. Our major strength comes by forging strong industry-academic linkage. The Institute celebrates freedom of thought, cultivates vision and encourages growth and also inculcates human values and concern for the environment and society.

## ABOUT WORKSHOP

A three-day Workshop on the topic "Application of Arduino & ESP32 in multidisciplinary Engineering" is scheduled to take place on 15-17 March 2023 at Department of EEE, NSRIT, Vesur, Mysuru. Through this workshop, students will gain a foundational understanding of electronics, sensors, modules, development boards, IoT and their real-time applications. Additionally, they will become familiar with various modules such as relay, Bluetooth, RF, Wi-Fi, GSM, GPS and learn how to work with development boards like Arduino and ESP32. By the end of the workshop, students will gain practical experience in coding and building multiple projects using Arduino and ESP32.

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## NSRIT CREDENTIALS

- Institution is accredited by National Assessment and Accreditation Council (NAAC) with "A" grade (B-10/4-11)
- UGC granted the status of autonomy in 2020 and the institution is under the transition stage
- Ranked the QS i-Gauge 2 Learning Excellence for Academic Organization (E-Learning) Certificate from QS with a score of 100 out of 100
- Recognized under 2 (b) and 2 (d) of UGC Act 1956
- Institution is rated by various education magazines like Career 360 and Career Connect and strong industry-system linkage recognized as a model college for AICTE Pradesh
- State Council for Higher Education (SCHEER) recognized under the scheme PNERV during 2017-2018 & 2018-2019

The event has been conducted for internal participants. 90 internal participants are from EEE II & III year of our college. The Head of the Department, Dr. R S R Krishnam Naidu has attended the event along with all the Department staff. Dr. R. Amalawari, Assistant Professor has hosted the event. The Head of the Department has addressed the gathering as well as thanked the Resource persons for accepting the invitation for the conduction of the event.

## Day 1:15-03-23



**On this day, the basic concepts are covered such as**

### **What is EEE ?**

There are Electrical as well as Electronic devices are present in our daily life surroundings.

For example : Electrical equipment like Fan, Air Conditioner, Light, TV etc.,

Electronic Devices like Mobile, laptop, Smart Watch etc.,

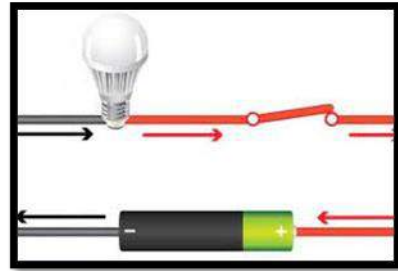
Electrical equipment requires 230V ac whereas electronic devices need 30V dc most cases.

## Voltage, Current & Resistance

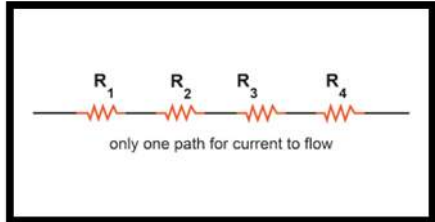
**Voltage:** The difference between two points i.e., between the higher potential & the lower potential

**Current:** Rate of flow of charge or by other means as something which opposes the flow of electrons.

**Resistance:** Resists the flow of current.

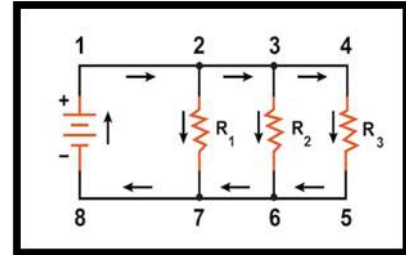


## Series & Parallel Circuits



In Series Circuit the electrical components are connected end-to-end in a line.

**Parallel Circuit:**  
In parallel circuit the switch is connected in series with the whole circuit which are connected in parallel.



Example: House wiring

**Active Components:** Acts as a power source and deliver power to the circuit. Eg: Voltage & Current sources

**Passive Components**

It only consumes power. Eg: Resistor, Capacitor

## Sensors

**Sensor:** Sensor is a device which measures any physical quantity and converts it into electrical quantity.

**Types of Sensors:**

Analog and Digital Sensors

### Different Sensors

Temperature sensor

Gas sensor

Humidity Sensor

Tilt sensor

Flow & level sensor

Soil moisture sensor

Color sensor

Ultrasonic sensor

Pressure sensor

Proximity sensor

PIR sensor

Infra Ray sensor

Touch sensor

Light sensor

Alcohol sensor

### Actuator

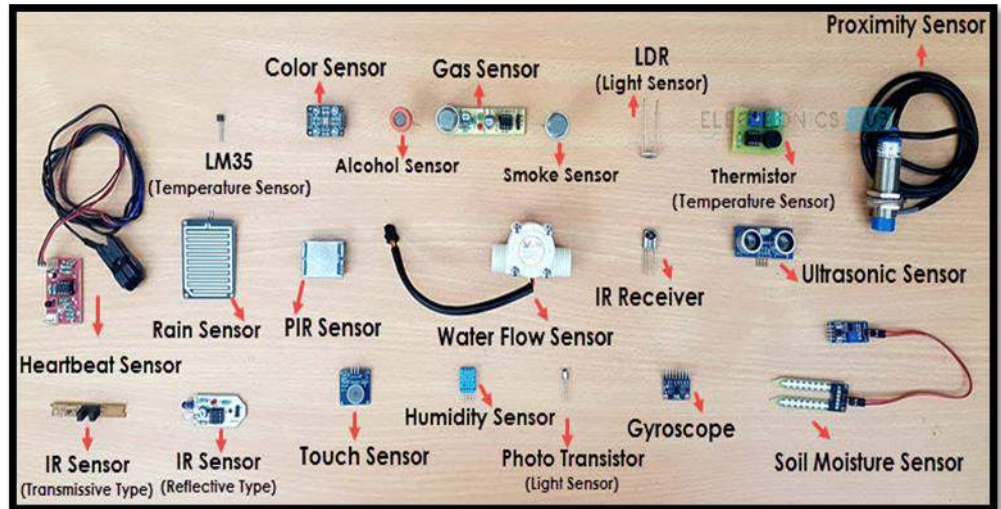
Converting electrical signal into a physical movement

### Different Actuators

Motor

Relay Module

Radio Frequency



### Electrical actuators

- Electric motors
  - DC servomotors
  - AC motors
  - Stepper motors
- Solenoids

### Hydraulic actuators

- Use hydraulic fluid to amplify the control command signal

### Pneumatic actuators

- Use compressed air as the driving force

Types of Actuators

## Wireless Communication Devices

Radio Frequency

GSM

GPS

Bluetooth

Wi – Fi

Li – Fi

## **Micro Controller**

Arduino

### Digital Pins

Acts as both input and output pins.

It consists of PWM pins for analog purpose.

### Analog Pins

Only acts as the input pins

### Tinkercad

Tinkercad is a free web app for 3D design, electronics and coding.

Signup & Login

### Sensor terminals

For sensors mostly any sensor is having 3 terminals and those are power, signal, ground.

### Analog Input

#### Potentiometer

Observing the analog values on the serial monitor by giving the input through the Arduino board (analog pin) by using the potentiometer.

#### Temperature Sensor

Observing the analog values on the serial monitor by varying the temperature from minimum to maximum.

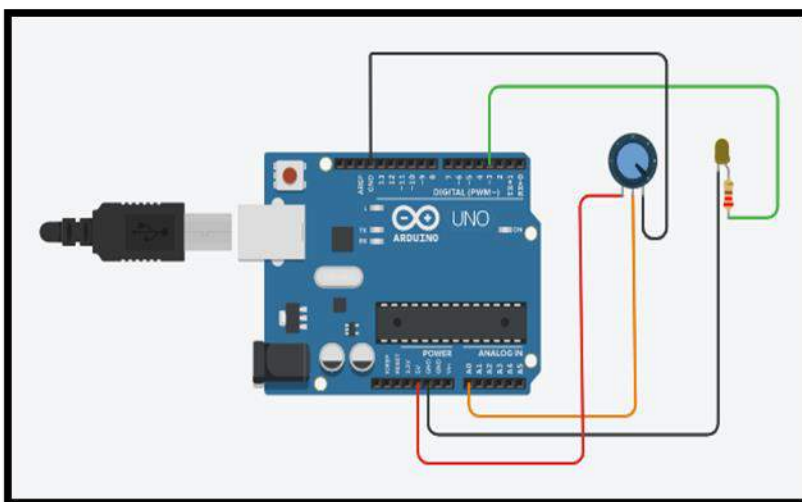
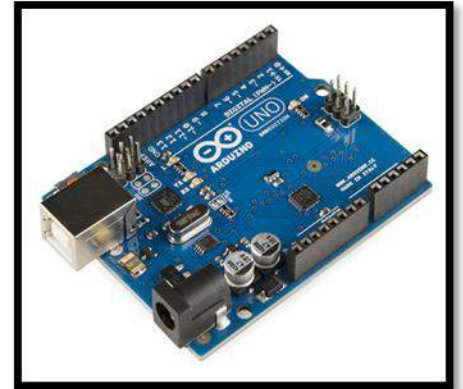
#### Digital Input

PIR Sensor is used and its output is connected as input to the digital pin of the Arduino and necessary observations are noted which are appeared on the serial monitor.

#### Digital Output

An LED is connected to the digital pin and the necessary code is written in the code section for controlling the LED using digitalWrite in order make it HIGH or LOW.

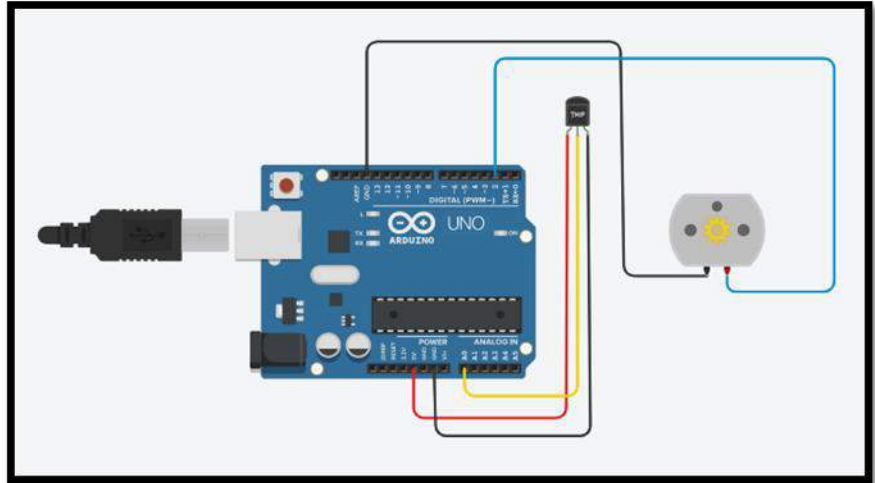
#### Analog Input Digital Output



Here, the potentiometer is connected as analog input and at the digital output pin LED is connected. A resistance is connected to the LED in order to limit the current.

**Day 2:16-03-23**

**On this day, the following projects are designed.**



**Air Conditioner Control using Temperature Sensor**

Here air conditioner's motor is connected at digital output pin and temperature sensor is given as input to the analog pin.

Here if condition is used to turn ON the AC after exceeding the certain temperature limit.



**Air Conditioner Control using PIR Sensor**

Here AC is turned ON after detecting the motion at the surroundings.

## Servo Motor

Servo Motor is limited to only 180 deg rotation and the rotation speed can be declared using the delay().

### Applications of Servo motor:

Automatic door openers  
Elevators  
Positioning  
Door openings

### Arduino IDE(Integrated Development Environment)

In the beginning stage, by using help option and Built-in examples available in Arduino IDE it is very much easier to learn Arduino coding.

While interfacing the Arduino or ESP 32 we have to select the board name and port.

For ESP 32, install ESP 32 from the library and choose the ESP32 Devkit as board and COM3 as port.

### Comparison between ESP 32 and Arduino

#### ESP 32 Module

CPU: Tensilica Xtensa LX6 microprocessor @ 160 or 240 MHz (we can choose either 160 or 240)

ESP32 supports a data rate of up to 150 Mbps (Internet speed)

ESP 32 Module was developed by Espressif Systems.

It has inbuilt dual Wi-Fi and Bluetooth support.

It has full TCP/IP support for full stack internet connection.

#### Arduino

CPU: Atmel

AVR (8-bit)

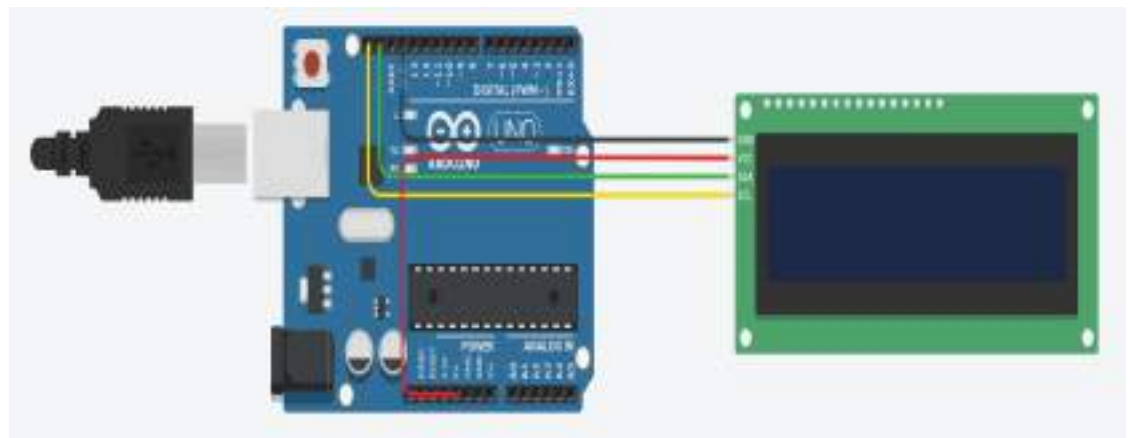
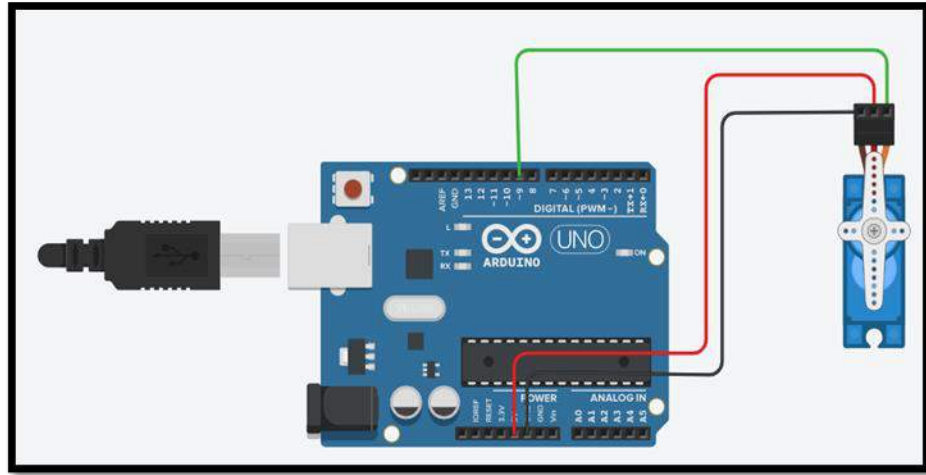
16 MHz

frequency speed

LCD(Liquid Crystal Display)

There are general LCD and I2C display

Here we are using the I2C



display

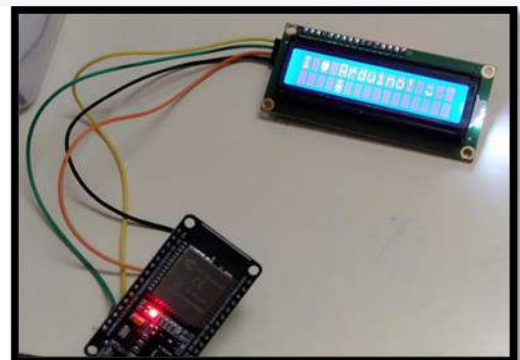
### LCD pin out

Available pins are VCC, GND, SDA, SCL

In the same way as above connections it is connected to the ESP 32 module.

The names or any sentences can be displayed on LCD on the particular row and columns by using the setCursor function.

Necessary emoji's can be displayed on the LCD by using the I2C display examples i.e., Customchars and CustomCharacters.



## Using ESP 32 Module

Interfacing IR Sensor

Interfacing LCD I2C Display

Interfacing IR Sensor & LCD I2C Display

Combination of IR Sensor, LCD & Relay Module



### Interfacing IR Sensor

The 3 pins (VCC, GND, Out) of IR Sensor is connected to the ESP32 (Vin, Gnd,D2).

Here the built-in LED is connected internally to the D2 pin.

An if condition is used i.e., the LED turns ON whenever it detects any object near to it otherwise it turns OFF.

### Interfacing LCD I2C Display

Here the 4 pins (VCC,GND,SDA,SCL) of LCD are connected to the ESP32 (Vin,GND,GPIOD21,GPIOD22) respectively.

After writing the software code in Arduino IDE i.e., in such a way that the LCD displays the given names in the lcd.print function.

After uploading the code the given names are displayed on the LCD.

### Interfacing IR Sensor & LCD I2C Display

Here the necessary connections are made as above and the slight change in the Arduino IDE code is to display the given name on the LCD display whenever IR Sensor detects any object around it.

### Day 3:17-03-23

**The interfacing of components is learned on the last day and lunch is provided for all participants.**

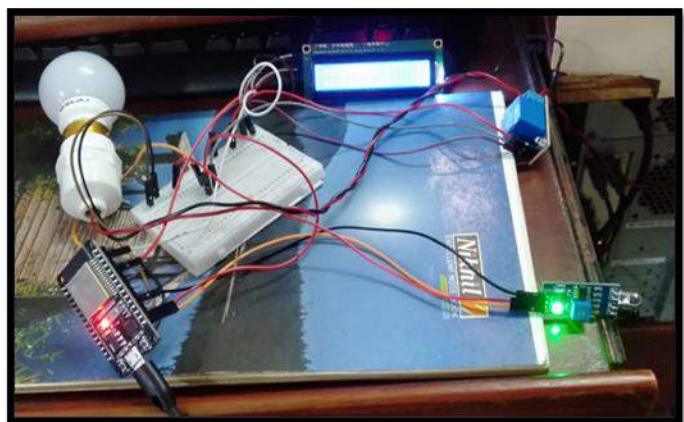
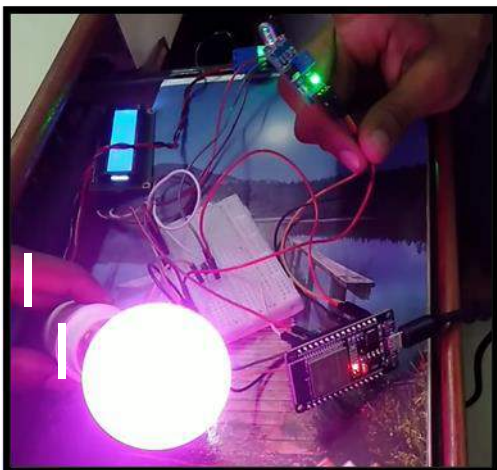
### Combination of IR Sensor, LCD & Relay Module

The relay module pins (VCC, Signal, GND) are connected to the ESP32 and in between these a transistor is connected, to boost up the signal in order to the make relay to get enough power supply. The slight change in the IR sensor connections are to connect the VCC of it to the 3V3 pin of ESP32.

To the relay module an AC bulb is connected i.e., we can turn on the AC load by using this relay module.

Here the overall operation is that whenever the IR sensor detects any object around LCD displays the given name and AC bulb turns ON immediately.

For example, if a person enters the room then LCD displays as “PERSON ENTERED THE ROOM” and the relay operates so the bulb turns ON for an indication.







The session has been concluded by Certificate Distribution and Vote of thanks by Dr. R. Amaleswari, Assistant Professor by thanking the Resource person and the Head of Department for conducting such a resourceful event. The session was completely hands -on and students gained more knnowledge.

The session was ended with National Anthem.

**HOD – EEE**

**(Dr. R S R Krishnam Naidu)**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**B.TECH II SEM CEMS TRAINING PHASE-I ROLL LIST FOR THE A.Y 2022-23**

**COURSE NAME : BASICS OF POWER SYSTEMS**

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Recognized under Section 3(3) & 12(B) of the UGC Act, 1956 Accredited by NAAC with 'A' Grade**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING****B.TECH V SEM CEMS TRAINING PHASE-III ROLL LIST FOR THE A.Y 2022-23****COURSE NAME : INDUSTRIAL AUTOMATION (PLC & SCADA)**

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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	K.UMA MAHESWAR	Interim Assessment and Report (20 Marks)	I 9.8	II 9.5
Roll No.	20NUIA0219	Outcomes (10 Marks)	19	
Program	B.TECH	Final Presentation (10 Marks)	9.5	
Status of Completion	Completed / Not Completed	Total Marks	47	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO8 PO7 PO9 PO10 PO11 PO12 PO13 PO14 PO15		✓	
Signature of Course Facillator with Date		Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Understand the fundamentals of programming languages.
- Understanding the goals and structures
- To learn problem solving skills
- An Ability to use current techniques, and tools of computer, using modern programming languages
- using correct looping, and construct for situation of code.
- Developed a skill by using oops concept
- using functions in the code.
- learned to develop a project based on basis of the course.

K. Umamaheswari

28/11/22

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks													
Name	M. LOKESH	Interim Assessment and Report (20 Marks)	I 9.7	II 8											
Roll No.	20NUIA0220	Outcomes (10 Marks)		16											
Program	BTECH	Final Presentation (10 Marks)		8											
Status of Completion	Completed / Not Completed	Total Marks		92											
POs Addressed	PO1	PO2	PO3	PO4	PO5	PO6	PO8	PO7	PO9	PO9	PO10	PO11	PO12	PO1	PO12
Signature of Course Facilitator with Date		Signature of HoD with Date													





Note: The range '1' through '5' is Weak to Strong

**Learnners Descriptive Learning Outcomes** (Learnners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- understand the fundamentals of core Java and how a computer works.
- understanding the goals & structure
- To learn how to take a problem
- use of some functions in the code.
- Developed skills by using Oop's concept
- learn basics of programming with modern programming language
- An ability to use current techniques skills & tool
- use the correct looping construct for situation of code

M. LOKESH

28/11/22

Student Signature with Date





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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
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Roll No.	20NUIA0221	Outcomes (10 Marks)	18	
Program	B-tech	Final Presentation (10 Marks)	9.5	
Status of Completion	Completed / Not Completed Completed	Total Marks	46	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15			
 Signature of Course Facilitator with Date		 Signature of HoD with Date		

Roll No. : 200201A0221  
 Course Code : 20EE503  
 Title of the Course : MOOC's - Core Java

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓					✓		
2	I have gained theoretical & practical knowledge		✓					✓	
	a. I have developed my Coding skills	✓					✓		
	b. I have developed a product	✓						✓	
	c. I have developed a system or process	✓						✓	
	d. I have developed my problem solving skills	✓							✓
	e. I have developed a computer based application	✓	✓					✓	
	f. I have developed a hardware application	✓						✓	
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge								
2	He / She has gained theoretical & practical knowledge	✓						✓	
	a. The learner has developed my Coding skills	✓						✓	
	b. The learner has developed a product	✓						✓	
	c. The learner has developed a system or process	✓						✓	
	d. He/She has developed his/her problem solving skills		✓					✓	
	e. He/She has developed a computer based application		✓					✓	
	f. The learner has developed a hardware application	✓						✓	
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- To learn how to take a problem
- use some functions in the code.
- understand the goals and structure
- understand the fundamentals of code Java and how a take a problem
- To learn basics of programming with modern programming language
- Use the correct looping construct for situations of code
- An ability to use current techniques, skills and tools.

N. Divya 28/11/22  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks												
Name	N. Ramesh	Interim Assessment and Report (20 Marks)	I	II										
			8.2	10										
Roll No.	20NVIA0922	Outcomes (10 Marks)	18											
Program	B.Tech	Final Presentation (10 Marks)	9.5											
Status of Completion	Completed / Not Completed	Total Marks	46											
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14													
Signature of Course Facilitator with Date		Signature of HoD with Date												



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- understand the fundamentals of core java and have a computer works.
- understanding the goals and structure
- To learn how to solve a problem
- To learn basics of programming with modern programming language.
- use some functions in the code.
- Developed a skill by using OOPS concept.
- An ability to use current technique skills and tools
- use the connected looping construct for situation of code.

N. Ramash  
28/11/2022  
Student Signature with Date





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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	P. Uday Srinivas	Interim Assessment and Report (20 Marks)	I	II
			8.5	8
Roll No.	20NVIA0223	Outcomes (10 Marks)	17	
Program		Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed	Total Marks	43	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11	PO12	PO13
 Signature of Course Facilitator with Date		 Signature of HoD with Date		





Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have improved my coding skills
- Demonstrate basic problem solving skills
- To learn how to take a problem figure out the algorithm to write code
- To learn basic of programming with a modern programming language, Java.
- To understand the expression and variables.
- Develop a app which is in basic to know the concepts of JAVA.
- understand about new topics like polymorphism, inheritance etc.
- developed a skill by using apps concept.

P. vday Srinivas 28/11/22

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	P. yeeni baby	Interim Assessment and Report (20 Marks)	I 9.7	II 8
Roll No.	20NV1A0224	Outcomes (10 Marks)	17	
Program	B. tech	Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed Completed	Total Marks	44	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15			
Signature of Course Facilitator with Date		Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- understand the fundamentals of core Java and -have computer works.
- understanding the goals and structure
- To learn how to take a problem.
- To learn basic of programming with modern programming language.
- use some functions in the code.
- use some functions in the code
- Developed as skill for using OOPS Concept
- An ability to use current techniques skills and tools
- use the corrected looping construct for situation of code.

P. yeenu Babu  
22/11/22.  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	S. VASANTHI	Interim Assessment and Report (20 Marks)	I 9.5	II 8.5	
Roll No.	20NDIA0125	Outcomes (10 Marks)	18		
Program	B-TECH	Final Presentation (10 Marks)	7.5		
Status of Completion	Completed / Not Completed	Total Marks	96		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10	PO11 PO12	PO13 PO14	
Signature of Course Facilitator with Date		Signature of HoD with Date			

Roll No. : 20NU1A0225  
 Course Code : 20FE503  
 Title of the Course : SOE - MOOC (Code Java)

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge								
2	I have gained theoretical & practical knowledge	✓							✓
	a. I have developed my Coding skills	✓						✓	
	b. I have developed a product	✓							✓
	c. I have developed a system or process	✓							✓
	d. I have developed my problem solving skills		✓					✓	
	e. I have developed a computer based application	✓							✓
	f. I have developed a hardware application	✓						✓	
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	/						/	
2	He / She has gained theoretical & practical knowledge		/					/	
	a. The learner has developed my Coding skills		/					/	
	b. The learner has developed a product	/							/
	c. The learner has developed a system or process	/							/
	d. He/She has developed his/her problem solving skills	/							/
	e. He/She has developed a computer based application	/							/
	f. The learner has developed a hardware application	/						/	
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Understand the fundamental of core Java and how a compiler works.
- Understand the goals and structure
- To learn how to take a problems.
- To learn basics of programming with modern Programming Language.
- Use some functions in the code.
- Developed as skill by using OOPS concept.
- An ability to use current techniques, skills and tools.
- Use the correct looping construct for situation of code.

 V. Vasanthi  
28/11/22

Student Signature with Date





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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	S. Yugandhar	Interim Assessment and Report (20 Marks)	I 7.7      II 9.5
Roll No.	202011A0226	Outcomes (10 Marks)	17
Program	B-tech	Final Presentation (10 Marks)	9
Status of Completion	Completed / Not Completed	Total Marks	93
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12	PO13 PO14
Signature of Course Facilltator with Date		Signature of HoD with Date	



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have improved my coding skills.
- demonstrate basic problem solving skills.
- To learners how to take a problem, figure out the algorithm to write code.
- to learn basis of programming with a modern programming language, Java.
- understand how to install and use a good Java development environment.
- to understand the expressions and variables.
- learned about the new concepts helpful in software sector.
- developed a skill by using oops concepts.
- understand about new topics like polymorphism, inheritance etc.

S. Yujandhar  
24/11/2022

Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks	
Name	Y. Naga Saranya Soce	Interim Assessment and Report (20 Marks)	I 9.7 II 9.5
Roll No.	20N01A0227	Outcomes (10 Marks)	(20) 18
Program	B.tech.	Final Presentation (10 Marks)	9
Status of Completion	Completed / Not Completed	Total Marks	96
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		
Signature of Course Facilitator with Date		Signature of HoD with Date	



**Note:** The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Understand the fundamentals of core Java and how a computer works.
- understanding the goals and structure
- to learn how to take a problem
- to learn basics of programming with modern programming language.
- use some functions in the code.
- developed as skill by using Dops concept.
- An ability to use current technique skills and tools.
- use the connected looping construct for situation of code.

Y. Swamy

Student Signature with Date 28/11/2022.



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	B - priyanka	Interim Assessment and Report (20 Marks)	I 9.9	II 9.5
Roll No.	21NUSA0201	Outcomes (10 Marks) (20)	18	
Program	B. Tech	Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed Completed	Total Marks	96	
POs Attained	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15			
Signature of Course Facilitator with Date		Signature of HoD with Date		

Roll No. : 20205A0201  
 Course Code : J0EE503  
 Title of the Course : J0C - J0003 (Core Java)

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge								
2	I have gained theoretical & practical knowledge	✓							✓
	a. I have developed my Coding skills	✓					✓		
	b. I have developed a product	✓							✓
	c. I have developed a system or process	✓							✓
	d. I have developed my problem solving skills		✓					✓	
	e. I have developed a computer based application	✓							✓
	f. I have developed a hardware application	✓					✓		
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode) Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandata and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge								
2	He / She has gained theoretical & practical knowledge	✓							✓
	a. The learner has developed my Coding skills	✓							✓
	b. The learner has developed a product	✓							✓
	c. The learner has developed a system or process	✓							✓
	d. He/She has developed his/her problem solving skills	✓							✓
	e. He/She has developed a computer based application	✓							✓
	f. The learner has developed a hardware application	✓						✓	
3	Any others, please specify								



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- understand The fundamentals of Core Java and how a Computer works.
- understanding The goals & structure.
- To learn how to take a problem.
- To learn basis of programming with modern programming languages.
- use some functions in the code.
- Developed as skill by using OOPS Concept.
- An ability to use various techniques, skills and tools.
- use the correct looping construct for situation of code.

B. priyanka

28/07/22

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
		Interim Assessment and Report (20 Marks)	I	II
Name	B. Rakesh		8.7	8.5
Roll No.	21NV5A0202	Outcomes (10 Marks)	20	
Program	B.Tech	Final Presentation (10 Marks)	9.5	
Status of Completion	Completed / Not Completed	Total Marks	47	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15			
Signature of Course Facilitator with Date <i>Rakesh</i> 11/12		Signature of HoD with Date <i>[Signature]</i> 15/12/22		



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have learned theoretical knowledge in detail.
- By learning through the course I have completed some of the assignments too.
- Knowledge of modern programming language tools were well gained.
- Learned to install the new software related to this course and submission of files too.
- Understood various concepts like OOPs, Inheritance, abstract keywords etc.
- Learned the Game app development concept which is very interesting.
- Developed new skills in problem solving questions related to the core Java.
- Basic coding core Java projects were developed by using the guidance.

B. Rakesh  
29/11/2022  
Student Signature with Date





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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	D. Venkata Sai Rakesh	Interim Assessment and Report (20 Marks)	I	II
			9.6	7.5
Roll No.	21NUSA0203	Outcomes (10 Marks)	16	
Program	B. Tech	Final Presentation (10 Marks)	20.5	
Status of Completion	Completed / Not Completed	Total Marks	41	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11	PO12	PSO1 PSO2
 1/12		 16/12/20		
Signature of Course Facilitator with Date		Signature of HoD with Date		



**Note:** The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Learned the importance of coding.
- Improved my coding skills.
- Learned how to take a problem, figure out the algorithm to write code.
- Learned the basics of programming language.
- Understood how to install & use a good java development environment.
- To understand the Expressions & Variables.
- Learned about new concepts helpful in software sector.
- Developed a app which is in basic to know the concepts of java.
- Understand about new topics like polymorphism, inheritance etc.

D. Rakul 20/11/22  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	D. Sindhusa	Interim Assessment and Report (20 Marks)	I	II	
			9.6	9.5	
Roll No.	21NUSA0204	Outcomes (10 Marks)	18		
Program	B.Tech	Final Presentation (10 Marks)	9.5		
Status of Completion	Completed / Not Completed	Total Marks			
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12	PO13 PO14 PO15 PO16 PO17	PO18 PO19 PO20	
Signature of Course Facilitator with Date		Signature of HoD with Date			
16/12		16/12/22			





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Understand the fundamentals of Core Java and how a computer works.
- Understanding the goals & structures.
- To learn how to take a problem.
- Use of some functions in the code.
- Developed skills by using ~~PO~~ DOPS concept.
- learnt basic of programming with modern programming language.
- An ability to use current techniques, skills and tools.
- Use the correct ~~or~~ looping construct for situations of code.

D. Smalshelia  
08/11/22

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	G. Nishank Baba	Interim Assessment and Report (20 Marks)	i 4.4	ii 8
Roll No.	21NUSAO205	Outcomes (10 Marks)	16	
Program	B.TECH	Final Presentation (10 Marks)	8.5	
Status of Completion	Completed / Not Completed	Total Marks	92	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11	PO12	PO13
Signature of Course Facilitator with Date		Signature of HoD with Date		

Roll No. : 21N05A0205  
 Course Code : 20EE03  
 Title of the Course : SDC-MOOCs (Code-2010)

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓						✓	
2	I have gained theoretical & practical knowledge	✓						✓	
	a. I have developed my Coding skills		✓					✓	
	b. I have developed a product	✓						✓	
	c. I have developed a system or process		✓						✓
	d. I have developed my problem solving skills		✓					✓	
	e. I have developed a computer based application	✓					✓		
	f. I have developed a hardware application	✓						✓	
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge								
2	He / She has gained theoretical & practical knowledge		/						/
	a. The learner has developed my Coding skills	/							/
	b. The learner has developed a product	/							/
	c. The learner has developed a system or process	/							/
	d. He/She has developed his/her problem solving skills	/							/
	e. He/She has developed a computer based application		/						/
	f. The learner has developed a hardware application	/							/
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have improved my coding skills
- Demonstrate basic problem solving skills
- To learn how to take a Problem figure out: the algorithm to write Code.
- To learn basic of programming with a modern programming language, Java
- Understand how to install and use a good Java development environment.
- To understand the expressions and variables
- learned about the new concepts helpful in software sector.
- Developed a app which is in basic to know the concepts of Java.
- Developed a skill by using oops concept.
- Understand about new topics like Polymorphism, inheritance etc.,

G. VithanKbaba

Student Signature with Date



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SONTYAM, Pendurthi - Anantapuram Highway, Visakhapatnam - 531173. Ph : 9833824187, 9896464840, www.nsril.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	R N J Lokesh Varma	Interim Assessment and Report (20 Marks)	I 8.9	II 9.5
Roll No.	21NUSA0206	Outcomes (10 Marks) (20)	18	
Program		Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed	Total Marks	95	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO8 PO7 PO9 PO10 PO11 PO12	PO13	PO14
Signature of Course Facilitator with Date		Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have improved my Coding Skills
- Demonstrate basic problem Solving Skills.
- To learn how to take a problem.  
Figure out the algorithm to write Code.
- To learn basic of programming with a modern programming language. Java.
- understand how to install and use a good Java development Environment.
- To understand the Expression and Variables.
- Learned about the new concepts helpful in software sector.
- Developed a app which is in basic to know the Concepts of Java.
- understand about new topics like polymorphism, inheritance etc.,
- Developed a skill by using oops concept.

R. Kokub Varma  
28/11/2022

Student Signature with Date





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SONTYEM, Penelurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 0885824167, 8896464546, www.nsril.edu.in

## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks		
Name	N. Chohan Kumar Reddy	Interim Assessment and Report (20 Marks)	I	II
			9.1	9.5
Roll No.	21NUSAD0207	Outcomes (10 Marks)	18	
Program		Final Presentation (10 Marks)	9.5	
Status of Completion	Completed / Not Completed	Total Marks	46	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO6 PO7 PO8 PO9 PO10 PO11 PO12	PO13	PO14 PO15 PO16
Signature of Course Facilitator with Date		Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have improved my coding skills
- Demonstrate basic problem solving skills
- To learn how to take a problem.  
figure out the algorithm to write code
- To learn basic of programming with a modern programming language - JAVA
- understand how to install and use a good JAVA development environment.
- To understand the expression and variables
- Learned about the new concepts helpful in software sector
- Developed a app which is in basic to know the concepts of JAVA.
- understand about new topics like Polymorphism, inheritance etc;
- Developed a Skill by using OOPS Concept.

  
20/11/22  
Student Signature with Date

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**V SEMESTER - SKILL ORIENTED COURSE - III**  
**20EES01 - CORE JAVA FINAL MARKS**

R.No	Roll No	Student Name	FINAL INTERNAL MARKS	REPORT		ODD/ODDS	PRAC. PRESENTATION & VIVA	TOTAL MARKS
				VIDEO	PPT			
1	20NU1A0201	ADAPUREDDI DIVYA	10	1	3	20	10	30
2	20NU1A0202	ADIMULAM BHAGATH	9.3	4.5	5	18	9.5	45
3	20NU1A0203	ALLA POLI VINAY	9.0	4.5	5	18	9.5	46
4	20NU1A0204	ALLADI AKSHAY	8.4	5	5	18	9.5	46
5	20NU1A0205	APPIKONDA ASWINI	A	A	A	A	A	A
6	20NU1A0207	CHAPPA CHUDAMANI	9.4	4.5	5	17	9.5	46
7	20NU1A0208	CHINTHALA JANANI	9.7	4.5	5	17	9	45
8	20NU1A0209	D TARUN CHANDRA YUVARAJ	8.9	4.5	5	18	9	45
9	20NU1A0210	DANMU DINESH	A	A	A	A	A	A
10	20NU1A0211	GOLLAVELI MANI DEEPAK	9.8	3.5	4	16	8.5	41
11	20NU1A0212	GORLE SARDAS	9.2	3.5	4	15	8	40
12	20NU1A0213	GUTTAJI DIVYA	10.0	4	4	16	8	42
13	20NU1A0214	JITHASSETTY JANARDHAN KUMAR	9.7	4	4	18	9.5	45
14	20NU1A0215	JAKKANA ASHOK	9.5	3	3	16	8	38
15	20NU1A0215	KALLA VAMSI KRISHNA	9.6	4.5	3	17	9	43
16	20NU1A0217	KARAKA BEVATHI	9.2	4	4	17	9	43
17	20NU1A0218	KASSIBI DEEJESH SAI CHARAN	8.0	4.5	5	19	9.5	45
18	20NU1A0219	KENJULA UNA MAHESWAR	8.0	4.5	5	19	9.5	45
19	20NU1A0220	MORICHIPATI LOKESH	9.8	4.5	5	19	9.5	47
20	20NU1A0221	NARASIMHA DIVYA	9.7	4	4	16	8	42
21	20NU1A0222	NIRUJOGI RAKESH	9.4	4.5	5	18	9.5	46
22	20NU1A0223	PEDDAMANI UDAY SRINIVAS	8.2	5	5	18	9.5	46
23	20NU1A0224	PINISSETTI YERU BABY	8.5	4	4	17	9	43
24	20NU1A0225	SALAPU SASANTHI	9.7	4	4	17	9	43
25	20NU1A0226	SIMHA YUDANDILAR	9.5	4.5	5	18	9.5	45
26	20NU1A0227	YELLAPU NAGA SOMNIA SRIDE	7.7	4.5	5	17	9	43
27	21NUSA0201	BEYARA PRIYANKA	9.7	4.5	5	18	9	46
28	21NUSA0202	BURDOLA RAKESH	9.9	4.5	5	18	9	46
29	21NUSA0203	DILARMAVA VENKATA SAI RAKESH	8.7	4.5	5	20	9.5	47
30	21NUSA0204	DODDI SINDHUJSHA	9.4	3.5	4	16	8.5	41
31	21NUSA0205	GAJULA NISHANK BABA	9.4	4.5	5	19	9.5	46
32	21NUSA0206	K N JAGANMADHA LOKESH VARMA	9.4	4	4	16	8.5	42
33	21NUSA0207	NIBBATHI CHARAN KUMAR REDDY	8.9	4.5	5	16	9	45
34	21NUSA0208	PALLURI SAI VENKATA TEJA	9.2	4	4	17	9.5	44

*AB...  
FACULTY INCHARGE  
17-12-2022*

*...  
MODERU*



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SONTYAM, Pondur-04 - Anandapuram Highway, Visakhapatnam - 531173, Ph: 0893824187, 0899444348, www.nsr.it.edu.in

# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	A. Divya	Interim Assessment and Report (20 Marks)	I: 10 II: 7
Roll No.	20NV1A0201	Outcomes (10 Marks)	20
Program	B. tech	Final Presentation (10 Marks)	10
Status of Completion	Completed / Not Completed	Total Marks	45
POs Addressed		PO1	PO2
		PO3	PO4
		PO5	PO6
		PO7	PO8
		PO9	PO10
		PO11	PO12
		PO13	PO14
		PO15	PO16

*Internal marks = 10 M  
Video = 5 M  
PPT = 5 M  
20 M  
20 M  
Final PPT  
VIVA = 10 M*

*Ra. Divya*

*Ra. Divya*  
11/12/22

Signature of Course Facilitator with Date

Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have improved my coding skills.
- Demonstrate basic problem solving skills.
- To learn how to take a problem, figure out the algorithm to write code.
- understand how to install and use a good Java development environment
- To understand the expressions and variables.
- Learned about the new concepts helpful in software sector.
- Developed a app which is in basic to know the concepts of Java.
- developed a skill by using OOPS concept
- Understand about new topics like polymorphism inheritance etc.. //

A. Divya 28/11/22

Student Signature with Date



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SONTYAM, Pondurdi - Anandapuram Highway, Visakhapatnam - 531 173. Ph : 9888241147, 9099404348. www.nsril.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	A. Bhagat	Interim Assessment and Report (20 Marks)	I	II
Roll No.	20NU1A0202	Outcomes (10 Marks)		18
Program	B.Tech	Final Presentation (10 Marks)		10
Status of Completion	Completed / Not Completed	Total Marks		46
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9	PO10 PO11 PO12	PO13
Signature of Course Facilitator with Date		Signature of HoC with Date		





Note: The range '1' through '4' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have improved my coding skills.
- demonstrate basic problem solving skills
- to learn how to take a problem, figure out the algorithm to write code.
- To learn basics of programming with a modern programming language, java.
- understand how to install and use a good Java development environment.
- To understand the expressions and variables.
- Learned about the new concepts helpful in software sector.
- Developed a app which is in basic to know the concepts of Java.
- Developed a skill by using OOPS concept.
- understand about new topics like Polymorphism, inheritance etc..

Aishagat  
28/11/2022  
Student Signature with Date



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SONTYEM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph: 8885224167, 8096484548, www.nsril.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks													
Name	ALLA. POU VINAY	Interim Assessment and Report (20 Marks)	I	II											
			18												
Roll No.	ZONUIA0203	Outcomes (10 Marks)	18												
Program	B-Tech	Final Presentation (10 Marks)	10												
Status of Completion	Completed / Not Completed	Total Marks (50)	46												
POs Addressed	PO1	PO2	PO3	PO4	PO5	PO6	PO8	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Signature of Course Facilitator with Date		Signature of HoD with Date													



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Understand the fundamentals of Core Java and how a computer works.
- Understanding the goals & structure.
- To learn how to take a problem.
- To learn basics of programming with modern programming language.
- Use some functions in the code.
- Developed as skill by using OOPS concept
- An ability to use current techniques, skills and tools.
- Use the correct looping construct for situation of code.

A. P. Li Vinay  
28/11/22

Student Signature with Date



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SONTYAM, Pandurthi - Anandapuram Highway, Visakhapatnam - 531173. Ph : 985824187, 909946448, www.nsril.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	A. Aswini	Interim Assessment and Report (20 Marks)	I 9.4	II 9.5
Roll No.	20NVIAG005	Outcomes (10 Marks)	17	
Program	B.Tech	Final Presentation (10 Marks)	9.5	
Status of Completion	Completed / Not Completed	Total Marks (50)	45	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15			
Signature of Course Facilitator with Date 16/12/22		Signature of HoD with Date 16/12/22		



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- \* Understand the fundamentals of the Java and how a compiler works
- \* understanding the goals & structure
- \* To learn how to take a problem,
- \* To learn basics of programming with modern programming language.
- \* Use some function in the code.
- \* Developed as skill by using Dops concept.
- \* An ability to use current techniques, skills and tools.
- \* Use the correct looping construct for situation of code.

Arasuini

Student Signature with Date





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SONTYAM, Panduribi - Anandapuram Highway, Visakhapatnam - 531 173. Ph : 9886824187, 8098484568, www.nsrin.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	CH. CHUDAMANI	Interim Assessment and Report (20 Marks)	I 9.7	II 9.5	
Roll No.	SDNUIAD307	Outcomes (10 Marks)	17		
Program	B. Tech	Final Presentation (10 Marks)	9		
Status of Completion	Completed / Not Completed	Total Marks	45		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10	PO11	PO12	PO13 PO14
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- understands the fundamental of core java and have a computer words.
- understanding the goals and structure
- To learn how to take a problem
- To learn basics of programming with modern Programming Language.
- use some functions in the code.
- Developed as still by using Dops concept
- An ability to use current technique skills and tools.
- Use the corrected looping construct for situation of code.

ch. chudamani  
28/11/22  
Student Signature with Date



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SONTYAM, Panabathal - Anaparthi Road, Visakhapatnam - 531173, Ph: 9846239952, 9896442443, www.nsril.ac.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	Chinthala, Janani	Interim Assessment and Report (20 Marks) 10+10	I	II
			8.9	9.5
Roll No.	20NUIA0208	Outcomes (10 Marks)	18	
Program	B-Tech	Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed	Total Marks	45	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15		
6/12/22		6/12/22		
Signature of Course Facilitator with Date		Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- understanding the goals & structure.
- To learn how to take a problem
- Understand the fundamentals of core Java and how a computer works.
- To learn basics of programming with modern programming language.
- use some functions in the code.
- Developed as skill by using app pops concept.
- An ability to use current techniques, skills and tools.
- Use the correct looping construct for situation of code.

Ch. Janani

28/11/22

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	DHAMMU. DIVESH	Interim Assessment and Report (20 Marks) 10+10	I	II	
			9.8	7.5	
Roll No.	20NUIA0210	Outcomes (10 Marks) (6)	16		
Program	BTECH	Final Presentation (10 Marks)	8.5		
Status of Completion	Completed / Not Completed	Total Marks	41		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO6 PO7 PO8 PO9 PO10 PO11 PO12	PO12	PO1	PO12
Signature of Course Facilitator with Date		Signature of HoD with Date			
PS 1/12		PS Krishna 12/12/22			





Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- understand the fundamentals of code Java, and how a computer works.
- understanding the goals & structure.
- To learn how to take a problem
- to learn basics of programming with modern programming language.
- use some functions in the code.
- use the correct looping construct for initiation of code.

P. Divya 28/11/22  
Student Signature with Date



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 SONTYAM, Pandurath - Anandapuram Highway, Visakhapatnam - 531173, Ph: 088624167, 809484546, www.nsrit.org.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	En Mani Deepak	Interim Assessment and Report (20 Marks)	I 9.8	II 7.5
Roll No.	20NV1A0211	Outcomes (10 Marks)	15	
Program	B-Tech	Final Presentation (10 Marks)	8	
Status of Completion	Completed / Not Completed Completed	Total Marks	40	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		
 Signature of Course Facilitator with Date		 Signature of HoD with Date		

Roll No. : 20NU/A0211  
 Course Code : 20EES03  
 Title of the Course : SOE - MOOCs (COE - Java)

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓						✓	
2	I have gained theoretical & practical knowledge	✓						✓	
	a. I have developed my Coding skills		✓					✓	
	b. I have developed a product	✓					✓		
	c. I have developed a system or process		✓						
	d. I have developed my problem solving skills		✓						✓
	e. I have developed a computer based application	✓						✓	
	f. I have developed a hardware application	✓					✓		
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	/						/	
2	He / She has gained theoretical & practical knowledge	/						/	
	a. The learner has developed my Coding skills	/						/	
	b. The learner has developed a product	/						/	
	c. The learner has developed a system or process		/					/	
	d. He/She has developed his/her problem solving skills	/						/	
	e. He/She has developed a computer based application	/						/	
	f. The learner has developed a hardware application	/					/		
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Learned the importance of coding
- Improved my coding skills.
- learned how to take a problem, figure out the algorithm to write code.
- learned the basics of programming language.
- understood how to install and use a good java development environment.
- To understand the expressions and variables.
- learned about new concepts helpful in Software sector.
- Developed a app which is in basic to know the concepts of java.
- understand about new topics like polymorphism, inheritance etc.

G. Nani Jagadek  
28/11/2022  
Student Signature with Date



**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



(Approved by AICTE, New Delhi) (Affiliated to JNTUK, K.G. Road) (A-41 001 001, 002 10001 & 003 0001) (Courses provided)  
Recognized under 2(F) of the UGC Act 1956 (Assessed by NAAC with 'A' Grade (3.10/4.00)  
SONTYAM, Panaburthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 8665824167, 8099484546, www.nsril.edu.in

## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks															
Name	G. Srinivas	Interim Assessment and Report (20 Marks)		I							II						
				10							8						
Roll No.	20NU1A0212	Outcomes (10 Marks)		16													
Program	B.Tech	Final Presentation (10 Marks)		8													
Status of Completion	Completed / Not Completed	Total Marks		42 ✓													
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10	PO11 PO12	PO13 PO14 PO15 PO16	PO17 PO18 PO19 PO20	PO21 PO22 PO23 PO24	PO25 PO26 PO27 PO28	PO29 PO30 PO31 PO32	PO33 PO34 PO35 PO36	PO37 PO38 PO39 PO40	PO41 PO42 PO43 PO44	PO45 PO46 PO47 PO48	PO49 PO50 PO51 PO52	PO53 PO54 PO55 PO56	PO57 PO58 PO59 PO60		
Signature of Course Facilitator with Date		Signature of HoD with Date															
16/12/22		16/12/22															



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have improved my Coding Skills.
- Demonstrate basic problem solving skills.
- To learn how to take a problem, figure out the algorithm to write code.
- understand how to install and use a good Java development environment.
- To understand the expressions and variables.
- learned about the new concepts helpful in Software Sector.
- Developed an app which is in basic to know the concepts of Java.
- Developed a skill by using oop's concept.
- understand about new topics like polymorphism, inheritance etc..
- To learn basic of programming with a modern programming language, Java.

G. Srinivas 28/11/2022

Student Signature with Date



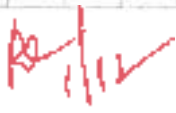

**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



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SONTYAM, Papatkurthi - Anaparthi Highway, Visakhapatnam - 531173, Ph: 088624147, 08866458, www.nsril.edu.in

# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	GOTTAPU DIVYA	Interim Assessment and Report (20 Marks)	I	II	
			9.7	8	
Roll No.	20NU1A0213	Outcomes (10 Marks) <sup>20</sup>	18		
Program	B. Tech	Final Presentation (10 Marks)	9.5		
Status of Completion	Completed / Not Completed	Total Marks	45		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10	PO11 PO12	PO13 PO14	PO15
					
Signature of Course Facilitator with Date		Signature of HoD with Date			







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SONTYARN, Pendurthi - Arundapalem Highway, Visakhapatnam - 531173, Ph: 988824167, 900646466, www.nsr.it

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	I. Janardhan	Interim Assessment and Report (20 Marks)	I 95 II 6
Roll No.	20N01A0214	Outcomes (10 Marks) (10)	14
Program	B. Tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	38
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

Signature of Course Facilitator with Date

Signature of HoD with Date

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Understand the fundamentals of Core Java and how a computer works.
- Understanding the goals of structure.
- To learn how to take a problem.
- To learn basics of programming with modern programming language.
- Use some functions in the code
- Developed as skill by using pops concept
- An ability to use current techniques, skills and tools
- Use the correct looping construct for situation of code.

G. Divya 28/11/22

Student Signature with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have Improved my Coding Skills.
- Demonstrate basic problem solving skills
- understood how to install and use a good Java development environment.
- To understand the expressions and variables
- learned about the new concepts helpful in software sector.
- Developed an app which is in basic to know the concepts of JAVA.
- Developed a skill by using oops concept.
- understood about new topics, like polymorphism, inheritance etc.,

S. Javedhan 28/11/2022  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	J. ASHOK	Interim Assessment and Report (20 Marks)	I 9.6	II 9.5
Roll No.	20NU1A0215	Outcomes (10 Marks) (20)	11	
Program	B. Tech	Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed	Total Marks	45	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12	PO13 PO14 PO15	PO16
Signature of Course Facilitator with Date		Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Understand the fundamentals of Core Java and have a Computer work.
- Understanding the goals and structure
- To learn how to take a problem and its solution.
- To learn basis of programming with modern programming language.
- Use some functions in the code.
- Developed a skill by using DO & concept.
- use the created looping construct for situation of code.
- An ability to use current technique skills and code.

J. Ashok.  
98/11/22  
Student Signature with Date



2014, 2008  
**NSRIT**

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SONTYAM, Pandurani - Anandapuram Highway, Visakhapatnam - 531173. Ph: 0886824187, 0896484548, www.nsril.edu.in

## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks			
Name	K. Vamsi Krishna	Interim Assessment and Report (20 Marks)	I 7.2	II 8	
Roll No.	20201A0216	Outcomes (10 Marks)	(10)	17	
Program	B. Tech	Final Presentation (10 Marks)		9	
Status of Completion	Completed / Not Completed	Total Marks		43	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14				
Signature of Course Facilitator with Date		Signature of HoD with Date			

Roll No. : 20NUIA0216  
 Course Code : 20EE503  
 Title of the Course : SOC - MOOC (Eota-Tara)

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge		✓						✓
2	I have gained theoretical & practical knowledge	✓						✓	
	a. I have developed my Coding skills	✓						✓	
	b. I have developed a product	✓						✓	
	c. I have developed a system or process	✓						✓	
	d. I have developed my problem solving skills		✓						✓
	e. I have developed a computer based application	✓						✓	
	f. I have developed a hardware application	✓						✓	
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However It is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓						✓	
2	He / She has gained theoretical & practical knowledge	✓						✓	
	a. The learner has developed my Coding skills	✓						✓	
	b. The learner has developed a product	✓							✓
	c. The learner has developed a system or process	✓						✓	
	d. He/She has developed his/her problem solving skills	✓						✓	
	e. He/She has developed a computer based application		✓					✓	
	f. The learner has developed a hardware application	✓						✓	
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- > understand the fundamentals how a computer works.
- > understanding the goals and structure.
- > to learn problem solving skills
- > An ability to use current techniques and tools of computers, using modern programming languages
- > using correct looping and construct for situation of code.
- > Developed as skill by using oops concept.
- > using functions in the code.
- > learned to develop a project based on basis of the course.

K. Vinod Krishna  
Student Signature with Date 28/11/22.



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SONTYAM, Pseudurim - Anandapuram Highway, Visakhapatnam - 531173, Ph : 9885824187, 8004454546, www.nsr.it.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	K. Revathi <sup>o</sup>	Interim Assessment and Report (20 Marks)	I	II
Roll No.	20NV1A0217		8	8.5
Program	B.tech	Outcomes (10 Marks)	19	
Status of Completion	Completed / Not Completed	Final Presentation (10 Marks)	9.5	
		Total Marks	45	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02			
Signature of Course Facilitator with Date		Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- \* understanding the goals & structure
- \* understand the fundamentals of core Java and how a compiler works
- \* we learn how to take a problem.
- \* to learn basics of programming with modern programming language.
- \* we some function in the code.
- \* Developed as skill by using Dops concept.
- \* An ability to use current techniques, skills and tools.
- \* use the correct looping construct for situation of code.

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester V) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	K. Sai Chasan	Interim Assessment and Report (20 Marks)	I: 8, II: 8.5
Roll No.	20N01A0218	Outcomes (10 Marks)	19
Program	B.Tech	Final Presentation (10 Marks)	9.5
Status of Completion	Completed / Not Completed	Total Marks	45
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14	
Signature of Course Facilitator with Date		Signature of HoD with Date	





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- understand the fundamentals how a computer works
- understanding the goals & structure
- To learn how to take a Problem.
- To learn basic's of programming with modern programming language
- An ability to use current techniques, skills and tools.
- use the correct looping construct for situation of code.
- Developed a skill by using DOPS concept.
- use some functions in the code.

K-Sai charan  
28/11/22  
Student Signature with Date

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
VI SEMESTER - BOLLORIENTO COURSE  
2023-24-1C FINAL MARKS**

Sl No	Roll No	Student Name	Total Internal Marks	Theory		OUTLINE	Final Percentage (in 100)	TOTAL MARKS	Max. Marks
				THI	PT				
1	21NU1A0001	ANUR DAS	9.5	4	5	20	30	50	34
2	21NU1A0002	ANURAGU PANDJI	1.7	4	2	15	7	30.7	31
3	21NU1A0003	AR QIDEN	5.5	3	5	18	8	45.5	46
4	21NU1A0004	ATRI KUNITH PANACTHORA GUJATHU	8.5	7	2	15	4	31.5	32
5	21NU1A0005	RAKTI GHANU CHANDRA SETHAR	9.3	1	4	15	6	38.3	39
6	21NU1A0006	RAVIRAJU JITHAN	9.2	4	4	18	8	43.2	44
7	21NU1A0007	BEHAGETHI YARA PRASAD	5.5	3	5	18	8	45.5	46
8	21NU1A0008	BHIM KUMAR S-H	4.1	5	3	17	7	35.1	40
9	21NU1A0009	BORJA SATHYASA	9.0	5	5	25	6	46.6	47
10	21NU1A0010	BHARAJI PAVAN KALYAN	8.5	4	5	18	8	43.5	44
11	21NU1A0011	CHITRA LAKSHI KISHAN RAO	8.5	4	4	18	7	39.5	40
12	21NU1A0012	CHANDRANILAKRISHNA	8.0	3	4	18	6	35	36
13	21NU1A0013	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
14	21NU1A0014	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
15	21NU1A0015	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
16	21NU1A0016	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
17	21NU1A0017	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
18	21NU1A0018	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
19	21NU1A0019	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
20	21NU1A0020	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
21	21NU1A0021	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
22	21NU1A0022	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
23	21NU1A0023	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
24	21NU1A0024	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
25	21NU1A0025	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
26	21NU1A0026	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
27	21NU1A0027	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
28	21NU1A0028	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
29	21NU1A0029	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
30	21NU1A0030	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
31	21NU1A0031	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
32	21NU1A0032	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
33	21NU1A0033	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
34	21NU1A0034	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
35	21NU1A0035	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
36	21NU1A0036	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
37	21NU1A0037	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
38	21NU1A0038	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
39	21NU1A0039	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
40	21NU1A0040	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
41	21NU1A0041	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
42	21NU1A0042	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
43	21NU1A0043	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
44	21NU1A0044	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
45	21NU1A0045	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
46	21NU1A0046	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
47	21NU1A0047	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
48	21NU1A0048	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
49	21NU1A0049	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
50	21NU1A0050	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
51	21NU1A0051	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
52	21NU1A0052	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
53	21NU1A0053	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
54	21NU1A0054	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
55	21NU1A0055	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
56	21NU1A0056	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
57	21NU1A0057	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
58	21NU1A0058	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
59	21NU1A0059	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
60	21NU1A0060	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
61	21NU1A0061	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
62	21NU1A0062	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
63	21NU1A0063	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
64	21NU1A0064	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
65	21NU1A0065	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
66	21NU1A0066	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
67	21NU1A0067	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
68	21NU1A0068	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
69	21NU1A0069	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
70	21NU1A0070	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
71	21NU1A0071	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
72	21NU1A0072	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
73	21NU1A0073	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
74	21NU1A0074	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
75	21NU1A0075	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
76	21NU1A0076	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
77	21NU1A0077	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
78	21NU1A0078	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
79	21NU1A0079	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
80	21NU1A0080	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
81	21NU1A0081	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
82	21NU1A0082	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
83	21NU1A0083	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
84	21NU1A0084	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
85	21NU1A0085	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
86	21NU1A0086	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
87	21NU1A0087	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
88	21NU1A0088	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
89	21NU1A0089	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
90	21NU1A0090	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
91	21NU1A0091	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
92	21NU1A0092	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
93	21NU1A0093	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
94	21NU1A0094	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
95	21NU1A0095	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
96	21NU1A0096	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
97	21NU1A0097	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
98	21NU1A0098	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
99	21NU1A0099	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40
100	21NU1A0100	CHANDRANILAKRISHNA	8.3	7	4	18	6	39.3	40

34	22HU1A0242	PARITHANNA	8.5	4	3	20	1	28.3	31
35	22HU1A0243	PATABALLA TANU SANEESH	9.5	4	5	17	8	33.5	44
36	22HU1A0244	PERUMAPATI SIVA RAMYAN	8.7	4	4	12	3	28.7	37
37	22HU1A0245	PONTHAPALLI BHAGYA LAKSHMI	7.5	4	5	16	7	21.5	28
38	22HU1A0246	POTTI KRISHNA VARSHAN	8.7	4	3	15	6	26.7	33
39	22HU1A0247	PRASADULA DEEPTHI	8.0	4	3	16	7	28.0	39
40	22HU1A0248	RAGHINI KARTIKA	8.7	1	1	20	6	28.7	39
41	22HU1A0249	SUBBAYYANU POOJITHA CHANDRA RAO	8.9	4	5	26	6	31.9	42
42	22HU1A0250	SARAGADAM PUSHPATHI	8.7	4	1	15	6	28.7	33
43	22HU1A0251	SARIPATI MANIBANTA SWAMI	8.3	3	4	15	4	26.3	37
44	22HU1A0252	SLEEBATHULA SPTIAN SUBHASH	8.9	1	1	26	5	33.9	38
45	22HU1A0254	SUKHIAJAYU LIPINDRA	9.4	4	5	17	8	33.4	44
46	22HU1A0255	TERRALA SRIVANSHI	9.3	3	5	13	8	34.3	45
47	22HU1A0256	TIPPALAPATI VARSHITHA	9.0	5	4	17	1	37.0	48
48	22HU1A0257	UPPAI SIVAKAMA	8.4	4	4	10	6	29.4	43
49	22HU1A0258	VAJRALAKSHI CHANDRA SETHAN	8.1	4	3	15	7	28.1	39
50	22HU1A0259	VARATHANU CHIRANU	8.0	3	4	13	6	28.0	38
51	22HU1A0260	BOODHAYALA SWATHI KUMAR	8.0	3	4	13	6	28.0	38
52	22HU1A0261	BOOTHARADU SAI CHIRAN	8.7	4	5	14	6	29.7	40
53	22HU1A0262	CHITRALA MOHITA JAYAKRISHN	9.3	5	3	12	1	36.3	47
54	22HU1A0263	CHINTHARA BHAGYA	8.7	4	4	18	9	34.7	45
55	22HU1A0264	DARSHANU TEJA	8.0	4	1	14	7	28.0	38
56	22HU1A0265	DORRERA HARINDRA	9.5	4	5	13	8	33.5	44
57	22HU1A0266	MEESALA GHANISHWAR	8.7	4	3	11	7	29.7	39
58	22HU1A0267	MAHAKA VEENA KANAKA NIRMAL JAYAN	9.4	4	5	16	3	32.4	43
59	22HU1A0268	MAHESHVARIPURANI LAKSHI	8.7	4	3	13	8	28.7	39
60	22HU1A0269	MAHESHVARIPURANI LAKSHI	8.0	4	3	12	6	28.0	38
61	22HU1A0270	PATILALA NARAYAN	8.7	4	4	17	7	30.7	41
62	22HU1A0271	SEETHAPATI LEELA PRASANNA	8.3	1	5	15	5	28.3	37
63	22HU1A0272	SHARMA VEERESH KANAKPURNI	9.3	3	4	15	7	30.3	41

  
Signature of Course Instructor

  
Signature of HoD



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (8.Tech.)**

Submitted by		Marks	
Name	Anik Das	Internal Assessment and Report (20 Marks)	I II 9.3 + 8
Roll No.	21NUIA0201	Outcomes (20 Marks)	18
Program	B.Tech R	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	44
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

*Anik Das*  
12/5/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By the PLC programming we have learned a lot they are,

- ① I have learned that how give a "ON" delay timer & "OFF" delay timer.
- ② The traffic signals logic
- ③ And by using PLC programming we can do Automatic door opening & closing.
- ④ In Automatic car washing & parking.
- ⑤ By PLC programming the logic are very easier than other one.
- ⑥ It's power consumes is low.
- ⑦ I have learned analog signal handling and closed loop control programming.



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	ANUPOM . Reddy	Internal Assessment and Report (20 Marks)	I 27 II 6
Roll No.	21NV1A0202	Outcomes (10 Marks)	15
Program	B-TECH	Final Presentation (10 Marks)	7
Status of Completion	Completed / Not Completed	Total Marks	31
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15 PO16 PO17 PO18 PO19 PO20 PO21 PO22 PO23 PO24 PO25 PO26 PO27 PO28 PO29 PO30 PO31 PO32 PO33 PO34 PO35 PO36 PO37 PO38 PO39 PO40 PO41 PO42 PO43 PO44 PO45 PO46 PO47 PO48 PO49 PO50 PO51 PO52 PO53 PO54 PO55 PO56 PO57 PO58 PO59 PO60 PO61 PO62 PO63 PO64 PO65 PO66 PO67 PO68 PO69 PO70 PO71 PO72 PO73 PO74 PO75 PO76 PO77 PO78 PO79 PO80 PO81 PO82 PO83 PO84 PO85 PO86 PO87 PO88 PO89 PO90 PO91 PO92 PO93 PO94 PO95 PO96 PO97 PO98 PO99 PO100		
Signature of Course Facilitator with Date		Signature of HoD with Date	





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I will be able to describe typical components of a programmable Logic Controller.
- I will be able to explain basic concept of a growing Logic Controller.
- I will be able to state basic PLC Terminology and their meanings.
- I will be able to explain the concept of basic digital electronics and data manipulation.
- student and I will be able to use timer, counter and other intermediate programming function.
- I will be able to design and program a small, automated industrial production line.

Rahul A  
17/5/23

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	ARIGI. DEVI	Internal Assessment	I II
		and Report (20 Marks)	9.5 + 40
Roll No.	21NU1A0203	Outcomes (20 Marks)	18
		Final Presentation (10 Marks)	8
Program	B.Tech.	Total Marks	<del>30.0</del> 45.5
Status of Completion	Completed / Not Completed		
	Completed		

POs Addressed PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PEC1 PSON2

Signature of Course Facilitator with Date

*Dev*  
12/10/23

Signature of HoD with Date

*Tik*



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) In this course I have learned the logic of ladder diagram.
- 2) With the help of PLC, we are able to get idea on the how the PLC will be implemented on the Industrial applications.
- 3) In this course we are able to understand PLC programs and algorithms.
- 4) From the PLC we can control a system function's and we can learn about the controllers.
- 5) So, by this course we can easily design ladder logic programs.

A. Devi / 12/15/23  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	A. ROUBA	Internal Assessment and Report (20 Marks)	I 8.5 + 4 II
Roll No.	21NUIA0204	Outcomes (10 Marks)	15
Program	B.Tech.	Final Presentation (10 Marks)	4
Status of Completion	Completed / Not Completed	Total Marks	32
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

Signature of Course Facilitator with Date  
Date: 12/11/23

Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By the PLC Programming we have learned a lot they are:-

→ I have learned that how give a on delay & off delay timer

→ the traffic signals logic

→ And by using PLC Programming we can do Automatic door opening & closing

→ In Automatic car washing, car parking we can use

→ By PLC Programming we get to know the boolean logic.

→ In PLC Programming the logic are very easier than other one

→ It consume low power.

*Pratik*

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

	Submitted by	Marks	
		Internal Assessment	I II
Name	B. Grana Chandan Sekhar	and Report (20 Marks)	9.3+7
Roll No.	21NVA00205	Outcomes (20 Marks)	16
Program	B.Tech (EEE)	Final Presentation (10 Marks)	6
Status of Completion	Completed / Not Completed	Total Marks	39
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2		

Signature of Course Facilitator: with Date  
Date: 12/6/23

Signature of HoD with Date



Roll No. : 21NU1A0105  
 Course Code : 20EE502  
 Title of the Course : program logicable controller (ab/PLC (ans))

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	<input checked="" type="checkbox"/>							
	I have gained theoretical & practical knowledge	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
2	a. I have developed my Coding skills	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
	b. I have developed a product	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>
	c. I have developed a system or process	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
	d. I have developed my problem solving skills	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
	e. I have developed a computer based application	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
	f. I have developed a hardware application	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>
3	Any others, please specify								<input checked="" type="checkbox"/>

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	<input checked="" type="checkbox"/>							
	He/She has gained theoretical & practical knowledge							<input checked="" type="checkbox"/>	
2	a. The learner has developed my Coding skills	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
	b. The learner has developed a product	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>
	c. The learner has developed a system or process	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
	d. He/She has developed his/her problem solving skills	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
	e. He/She has developed a computer based application	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
	f. The learner has developed a hardware application	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
3	Any others, please specify								<input checked="" type="checkbox"/>

Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through the course in their OWN WORDS) Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

\* Now I am able to describe typical components of a programmable logic controller. I am able to explain and learn the basic concept of a basic PLC terminology and their meanings. I learn the concept of electrical ladder logic, its history and its relationship to programmed PLC instruction.

\* Now I am able to use timer, counter, and other intermediate programming functions. I gain knowledge about basic PLC circuits for entry-level PLC applications.

Gnanachandran Sathyan,  
Student Signature with Date: 12/5/23



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	B. Jahnavi	Internal Assessment and Report (20 Marks)	I            II 9.2+8
Roll No.	21NUIA0206	Outcomes (20 Marks)	18
Program	B.Tech.	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	46
POs Addressed	PO1   PO2   PO3   PO4   PO5   PO6   PO7   PO8   PO9   PO10   PO11   PO12   PO13   PO14		

Signature of Course Facilitator with Date  
12/15/23

Signature of HoB with Date



**Note:** The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. We had learned about sequence of operations and master ladder logic programming.

2. A programmable logic controller (PLC) is a small modular solid state computer with customized instructions for performing a particular task.

3. PLCs, which are used in industrial control systems for a wide variety of industries have largely replaced mechanical relays, drum sequencers and cam timers.

4. PLCs are used in various applications in industries such as the steel industry, automobile industries, chemical industry and energy sector.

B. Jahnvi 12/5/23

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	B. Vasa Prasad	Internal Assessment and Report (20 Marks)	I 9.5 II 10
Roll No.	21NW1A0207	Outcomes (20 Marks)	18
Program	B. TECH	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	46
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12	PO13 PO14
Date 12/5/23		Signature of HOD with Date	
Signature of Course Facilitator with Date			



Note: The range '1' through '5' is Weak to Strong

Learnners Descriptive Learning Outcomes (Learnners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- \* Before learning this course I have very less knowledge about PLC. After learning this course. I can improve practical knowledge and theoretical knowledge.
- \* I have learned that how give a ON delay timer & off delay timer.
- \* And by using PLC programming we can do Automatic door opening & closing
- \* In Automatic car washing also we use.
- \* In Automatic car parking.
- \* By PLC programming, I get to know the bottle filling application.
- \* In PLC programming the logic's are very easier than other one.
- \* I have learned Analog signal handling and closed loop control programming

B. Vara Prasad

12-05-2023

Student Signature with Date





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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks			
Name	Bipin kumar sha	Internal Assessment and Report (20 Marks)	I 9.1	II 6	
Roll No.	21NU1A0208	Outcomes (10 Marks)	17		
Program	B.Tech	Final Presentation (10 Marks)	7		
Status of Completion	Completed / Not Completed	Total Marks	40		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14			
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- \* I able to use timer, Counter & other intermediate programming functions
- \* I able describe typical components of a programmable logic Controller
- \* I able to state basic PLC terminology & their meanings.
- \* I learned about the how gain on delay timer & off delay timer
- \* The plc programming are very easier
- \* It consume low power of time
- \* I learned about the Analog signal handling & closed loop control programming.

Bipin Kumar Sha 12/02/23.  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	BOINA SATHVIKA	Internal Assessment and Report (20 Marks)	I 9.6	II 10	
Roll No.	21NUIA0209	Outcomes (20 Marks)	19		
Program	B.Tech	Final Presentation (10 Marks)	8		
Status of Completion	Completed / Not Completed	Total Marks	47		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14				
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. From this course, I will be able to describe the typical components of a Programmable logic controller.
2. I learnt about the ladder diagram in the PLC (Programmable logic Controller)
3. With the help of the PLC we can implement the logic to the several applications
4. From the PLC, we can control a system's function using the internal logic programmed into it.
5. With the help of PLC, we are able to get an idea on how the PLC will be implemented on the industrial applications.

B. Sathvika 12/5/2023  
Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by	Marks		
	Internal Assessment and Report (20 Marks)	I	II
Name <b>B.Pavan kalyan</b>		<b>8.9</b>	<b>9</b>
Roll No. <b>21AUIA0210</b>	Outcomes (20 Marks)	<b>18</b>	
Program <b>B.Tech</b>	Final Presentation (10 Marks)	<b>8</b>	
Status of Completion <b>Completed</b>	Total Marks	<b>44</b>	
POs Addressed	PO1	PO2	PO3
	PO4	PO5	PO6
	PO7	PO8	PO9
	PO10	PO11	PO12
	F501	PS01	PS02

**Dr**  
**18/5/23**  
Signature of Course Facilitator with Date

**JCB**  
Signature of HoD with Date





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please

By the PLC programming we have learned  
a lot of things.

- \* I have learned that how give a ON delay timer & OFF delay timer.
- \* The ladder logic.
- \* And by using PLC programming we can do automatic door opening & closing.
- \* In automatic car washing also we use.
- \* In automatic car parking.
- \* By PLC programming, I get to know the bottle filling.
- \* In PLC programming the logic use very easy than other one.
- \* It consume low power.
- \* I have learned analog signal handling and closed loop control programming.

D. Prasad Madhavi  
12-5-23

Student Signature with Date



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SONTYAM, Pedduru - Anandapuram Highway, Visakhapatnam - 531173. Ph: 9445824187, 999484548, www.nsril.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	Ch. Sasivardhan	Internal Assessment	I	II	
		and Report (20 Marks)	8.5	8	
Roll No.	RAO 21N01A0211	Outcomes (10 Marks)			
		Final Presentation (10 Marks)	7		
Status of Completion	Completed / Not Completed	Total Marks			
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14				

Signature of Course Facilitator with Date

Signature of HoD with Date

Roll No. : 21NU1A021  
 Course Code : 20EES02  
 Title of the Course : programmable logic control

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓					✓		
	I have gained theoretical & practical knowledge		✓				✓		
	a. I have developed my Coding skills	✓				✓			
	b. I have developed a product		✓				✓		
2	c. I have developed a system or process		✓			✓			
	d. I have developed my problem solving skills	✓							✓
	e. I have developed a computer based application		✓						✓
	f. I have developed a hardware application	✓							✓
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓					✓		
	He / She has gained theoretical & practical knowledge								
	a. The learner has developed my Coding skills	✓							✓
	b. The learner has developed a product	✓							✓
2	c. The learner has developed a system or process	✓							✓
	d. He/She has developed his/her problem solving skills	✓					✓		
	e. He/She has developed a computer based application	✓					✓		
	f. The learner has developed a hardware application	✓					✓		
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By The plc programming we have learned a lot they are:

- 1) I have learned that how give a ON & delay timer & off delay timer.
- 2) The Traffic signals logic.
- 3) And by using plc programming we can do automatic door opening & closing.
- 4) In Automatic car washing also we use
- 5) In Automatic car parking.
- 6) By plc programming, I get to know the bottle filling.
- 7) In plc programming the logic are very easier than other one.
- 8) It consume low power.
- 9) capable of handling of very complex logic operation.

Student Signature with Date

Ch. Saivardhan Rao  
12/5/23





Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

PLC's act as the physical interfaces between devices on the plant or manufacturing floor and a SCADA or HMI system. PLC's can communicate, monitor and control complex automated processes such as conveyors temperature control robot cells and many other industrial machines.

CH. KEMARJ  
Student Signature with Date

12/05/23



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by	Marks		
	I	II	
Name: <i>D. Sai Milind</i>	Internal Assessment and Report (20 Marks)	8.3	7
Roll No. <i>21NUIA0213</i>	Outcomes (10 Marks)	10	
Program <i>B.Tech</i>	Final Presentation (10 Marks)	6	
Status of Completion <i>Completed</i>	Total Marks	32	
POs Addressed	PO1	PO2	PO3
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PO4	PO5	PO6
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PO7	PO8	PO9
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PO10	PO11	PO12
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PO13	PO14	PO15
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*D. Sai Milind*  
*18/5/23*  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date





Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By the PLC programming we have learned a lot they are:

- 1) I have learned that how give a ON delay timer & off delay timer.
- 2) The traffic signals logic
- 3) And by using PLC programming we can do automatic door opening & closing.
- 4) In automatic car washing also we use.
- 5) In Automatic car parking.
- 6) By PLC programming, I get to know the bottle filling.
- 7) In PLC programming the logic are very easier than other one.
- 8) It consume low power
- 9) I have learned analog signal handling & closed loop control programming.

*MPLWD* (12/05/23)  
Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by	Marks		
	Internal Assessment and Report (20 Marks)	I	II
Name : D. Harsha Varadhan	3.3	7	
Roll No. : 21N01A0275	Outcomes (20 Marks)	10	
Program : B.Tech	Final Presentation (10 Marks)	6	
Status of Completion : Completed	Total Marks	27	
POs Addressed	PO1	PO2	PO3
			PO4
	PO5	PO6	PO7
	PO8	PO9	PO10
	PO11	PO12	PSO1
			PSO2

*[Signature]*  
17/11/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through the course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) I had learnt basic concepts of plc.
- 2) I had learnt components of plc.
- 3) I had performed some basic operation using plc-ladder program.
- 4) I had performed some industrial related machines control program using programmable logic controller of ladder program.

Hosha  
12/05/23  
Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	DHARMI REDDY	Internal Assessment	I
	PUSHPAJA	and Report (20 Marks)	9.5
Roll No.	21NU1A0216	Outcomes (10 Marks)	18
		Final Presentation (10 Marks)	8
Program	B.Tech	Total Marks	45
Status of Completion	Completed / Not Completed		
	Completed		
POs Addressed	PO1 PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15 PO16		

*[Signature]*  
13/1/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date

Roll No. : 21NU1A0216  
 Course Code : 2DEE502  
 Title of the Course : Programmable Logic Controller

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓						✓	
	I have gained theoretical & practical knowledge	✓						✓	
	a. I have developed my Coding skills		✓					✓	
	b. I have developed a product		✓					✓	
2	c. I have developed a system or process	✓						✓	
	d. I have developed my problem solving skills	✓						✓	
	e. I have developed a computer based application		✓					✓	
	f. I have developed a hardware application		✓					✓	
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓							✓
	He / She has gained theoretical & practical knowledge								
	a. The learner has developed my Coding skills		✓					✓	
	b. The learner has developed a product		✓						✓
2	c. The learner has developed a system or process		✓						✓
	d. He/She has developed his/her problem solving skills		✓					✓	
	e. He/She has developed a computer based application		✓						✓
	f. The learner has developed a hardware application		✓						✓
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor. please.

1. From this course, I learned to understand the logic of the ladder diagram and also understood the implementation of the ladder diagram.
2. I understood the basic concepts of PLC (Programmable Logic Controller)
3. I will be able to describe the typical components of a program.
4. From the PLC, we will get to know how the PLC will be implemented on industrial applications.
5. From the PLC, we can control the system function using internal logic.

P. Pushpaja 12/5/23  
Student Signature with Date





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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
		I	II
Name	D. Saxon Kumar	Internal Assessment and Report (20 Marks)	8.9 6
Roll No.	21NUIA0217	Outcomes (20 Marks)	15
Program	B.Tech.	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	30
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

*D. Saxon Kumar*  
17/5/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By the plc programming we have learned a lot. They are

- I have learned that how give a ON delay timer & off delay timer.
- The traffic signal logic
- And by using plc programming we can do automatic door opening & closing
- In automatic car washing also we can
- In automatic car parking.
- By plc programming, I get to know the bottle filling.
- In plc programming the logic are very easier than other one.
- It consume low power.
- Capable of handling of very complicated logic operation.

Student Signature with Date

D. Saran Kumar

12/5/23



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by	Marks		
	Internal Assessment and Report (20 Marks)	I	II
Name <b>CR POLINAIDU</b>		7.3	8
Roll No. <b>21WU1A0248</b>	Outcomes (20 Marks)	12	
Program <b>B-TECH</b>	Final Presentation (10 Marks)	7	
Status of Completion <b>Completed</b>	Total Marks	35	
POs Addressed	PO1	PO2	PO3
	PO4	PO5	PO6
	PO7	PO8	PO9
	PO10	PO11	PO12
	PS01	PS02	

Signature of Course Facilitator with Date  
12/5/23

Signature of HoD with Date

Roll No. : 21WU1A0218  
 Course Code : 10 EE 302  
 Title of the Course : Programmable Logic Controller

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge			<input checked="" type="checkbox"/>					
2	I have gained theoretical & practical knowledge		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
	a. I have developed my Coding skills		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
	b. I have developed a product						<input checked="" type="checkbox"/>		
	c. I have developed a system or process								<input checked="" type="checkbox"/>
	d. I have developed my problem solving skills								<input checked="" type="checkbox"/>
	e. I have developed a computer based application								<input checked="" type="checkbox"/>
	f. I have developed a hardware application						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandale and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge								
2	He / She has gained theoretical & practical knowledge								
	a. The learner has developed my Coding skills								
	b. The learner has developed a product								
	c. The learner has developed a system or process								
	d. He/She has developed his/her problem solving skills								
	e. He/She has developed a computer based application								
	f. The learner has developed a hardware application								
3	Any others, please specify								

**Note:** The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

BY the PLC programming we have learned a lot they are

1. I have learned that how give a on delay timer & off delay timer.
2. the traffic signals logic
3. AND by using PLC programming we can do automatic door opening & closing.
4. In automatic car washing
5. In automatic car parking
6. by PLC programming the logic are very easier than other one
7. IF consume low power
8. I have learned analog signal handling and closed loop control programming

on p... 12-5-23  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	K. Jithendra	Internal Assessment and Report (20 Marks)	I 7	II 8
Roll No.	21NU1A0220	Outcomes (20 Marks)	10	
Program	B. TECH	Final Presentation (10 Marks)	7	
Status of Completion	Completed / Not Completed	Total Marks	32	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12			
Signature of Course Facilitator with Date [Signature] 17/5/23		Signature of HoD with Date [Signature]		





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

PLC's act as the physical interface between devices on the plant or manufacturing floor and a SCADA or HMI system, PLC's can communicate, monitor, and control complex automated processes such as conveyors, temperature control robot cells and many other industrial machines.

K. Jithendra  
Student Signature with Date

12/05/23



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks			
Name	K. Kishorika	Internal Assessment and Report (20 Marks)	I	II	
			9.1	9	
Roll No.	21N01A0221	Outcomes (20 Marks)	16		
Program	B.Tech (EEE)	Final Presentation (10 Marks)	8		
Status of Completion	Completed / Not Completed	Total Marks	43		
POs Addressed	PO1 PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 PO5 PO6	PO6 PO7 PO8 PO9 PO10 PO11 PO12	PO13	PO14	PO15
Signature of Course Facilitator with Date 12/15/23		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) Now, I am able to describe typical components of a Programmable Logic Controller
- 2) I am able to explain and learn the basic concepts of a programmable logic controller
- 3) I am able to state basic PLC terminology and their meanings.
- 4) I am able to explain the concept of basic digital Electronics and data manipulation
- 5) I am able to explain and apply the concept of electrical ladder logic, its history and its relationship to programmed PLC instruction
- 6) I am able to timer, counter, and other intermediate programming functions.
- 7) I am able to design and program a small automated industrial production line.

SK. Lakshika  
Student Signature with Date 12/5/23



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by	Marks													
	I	II												
Name : <b>KAREDLA MOHAN MADHU BALA</b>	Internal Assessment and Report (20 Marks)	9 9												
Roll No. <b>21NU1A0222</b>	Outcomes (20 Marks)	18												
Program <b>B.Tech</b>	Final Presentation (10 Marks)	8												
Status of Completion <b>Completed / Not Completed</b>	Total Marks	44												
POs Addressed	PO1	PO2	PO3 <input checked="" type="checkbox"/>	PO4 <input checked="" type="checkbox"/>	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02

*Na*  
17/5/23  
Signature of Course Facilitator with Date

*ECG*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**) Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. We had learned about sequence of operations and master ladder logic programming.
2. A programmable logic controller (PLC) is a small, modular solid state computer with customized instructions for performing a particular task.
3. PLC which are used in industrial control system for a wide variety of industries have largely replaced mechanical relays, drum sequencers and cam timers.
4. PLC's are used in various applications in industries such as the steel industry, automobile industry, chemical industry and the energy sector.

H. Madhu Babu 12/05/2023  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	K. Mahesh Kumar	Internal Assessment and Report (20 Marks)	I	II	
			2.7	7	
Roll No.	21NU1A0229	Outcomes (10 Marks)	10		
Program	B.Tech	Final Presentation (10 Marks)	6		
Status of Completion	Completed / Not Completed	Total Marks	26		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	POs Addressed	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15		
Signature of Course Facilitator with Date		Signature of HoD with Date			





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) I had learnt basic concepts of plc
- 2) I had learnt working of plc in automation industry.
- 3) I had performed some basic program - ~~more~~ ~~using~~ programmable controller.
- 4) I had learnt basic application of plc in automation laboratory.
- 5) I had some knowledge on plc programming ladder blocks.

*K. Mahesh* 12/05/2023  
Student Signature with Date



**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



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BONTYAD, Paraluruvi - Anandapuram Highway, Visakhapatnam - 531 173, Ph: 086624167, 8000461540, www.nsril.edu.in

# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	K. Bhaskar Rao	Internal Assessment and Report (20 Marks)	I 9.3	II 9
Roll No.	21N01A0224	Outcomes (20 Marks)	15	
Program	B.Tech	Final Presentation (10 Marks)	8	
Status of Completion	Completed / Not Completed Completed	Total Marks	42	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14			
Signature of Course Facilitator with Date 17/5/23		Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) I had learned basics of plc.
- 2) I had performed the basic operation on simulator of plc.
- 3) I had performed some real application using plc ladder programming.
- 4) I understand the ladder block diagram.
- 5) I learnt the typical components of a programmable logic controller.
- 6) I had basic of uses of plc in automation industry sector.

K. BRASKAR 12/05/23

Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks	
Name	KIMBURU KIRYANIK	Internal Assessment and Report (20 Marks)	I 3.3 II 9.
Roll No.	21NV1A0225	Outcomes (20 Marks)	16
Program	B. Tech	Final Presentation (10 Marks)	6
Status of Completion	Completed / Not Completed	Total Marks	35
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		
Signature of Course Facilitator with Date		Signature of HoD with Date	



**Note:** The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

A Programmable Logic Controller (PLC) is a specialized computer used to control machines and process. A Programmable Logic Controller (PLC) is a small, modular solid-state computer with customized instruction for performing a particular task. PLC act as the physical interfaces between devices on the plant or manufacturing floor and a SCADA or HMI system. PLC's are robust and flexible control solution that can be adapted to several applications.

K. Sandeep (12-05-23)

Student Signature with Date





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SONTYAM, Pondur Rd - Anandapuram Highway, Visakhapatnam - 531173, Ph: 9853824167, 6079484648, www.nsrit.edu.in

## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks			
Name	K. Sriharshini	Internal Assessment and Report (20 Marks)	I	II	
			9.3	10	
Roll No.	21101A0226	Outcomes (20 Marks)	18		
Program	B.Tech (EEE)	Final Presentation (10 Marks)	8		
Status of Completion	Completed / Not Completed	Total Marks	46		
POs Addressed	PO1 PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15				
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) Now, I am able to describe Typical Components of a Programmable Logic Controller.
- 2) I am able to Explain and learn the basic Concepts of a Programmable Logic Controller.
- 3) I am able to state basic PLC Terminology and their meanings.
- 4) I am able To Explain The Concept of basic digital electronics and data Manipulation.
- 5) I am able To Explain and apply the Concept of Electrical Ladder Logic, its History and its relationship to programming Functions.
- 6) I am able to Timer, Counter, and other Intermediate programming Functions.
- 7) I am able to design and program a small, automated Industrial Production Line.

\*Abhinavi  
12/05/2023

Student Signature with Date



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by	Marks	
	I	II
Name <b>M. MUKESH</b>		
	Internal Assessment and Report (20 Marks)	<b>8.7</b> <b>8</b>
Roll No. <b>21NU1A0229</b>	Outcomes (20 Marks)	<b>13</b>
Program <b>B.Tech</b>	Final Presentation (10 Marks)	<b>6</b>
Status of Completion <b>Completed</b>	Total Marks	<b>36</b>
POs Addressed	PO1	PO2
	<input checked="" type="checkbox"/> PO3	<input checked="" type="checkbox"/> PO4
	PO5	PO6
	PO7	PO8
	PO9	PO10
	PO11	PO12
	PO13	PO14
	PO15	PO16

**M. M. M. M.**  
13/01/23  
Signature of Course Facilitator with Date

**T. C. G. P.**  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. We had learned about sequence of operations and master ladder logic programming
2. A programmable logic controller (PLC) is a small modular solid state computer with customized instructions for performing a particular task
3. PLC which are used in industrial control system for a wide variety of industries have largely replaced mechanical relays drum sequencers and cam timers
4. PLC's are used in various applications in industries such as the steel industry, automobile industry, chemical industry and the energy sector

  
16/6/22  
Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks		
Name	M. Lalith Kumar	Internal Assessment and Report (20 Marks)	I	II
			8.5	7
Roll No.	21NV1A0228	Outcomes (20 Marks)	12	
Program	B tech (EEE)	Final Presentation (10 Marks)	7	
Status of Completion	Completed / Not Completed	Total Marks	35	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15			
 12/5/23				
Signature of Course Facilitator with Date		Signature of HoD with Date		





Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. Now I am able to describe typical components of a programmable logic controller.
2. I am able to explain and learn the basic concepts of a programmable logic controller.
3. I am able to state basic PLC terminology and their meanings.
4. I learn the concept of electrical ladder logic, its history, and its relationship to programmed PLC instructions.
5. Now I am able to use timer, counter and other intermediate programming functions.
6. I am able to design and program a small, automated industrial production line.
7. I gain knowledge about basic PLC circuits for entry-level PLC applications.

M. Jaiyath  
12/15/23

Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks	
Name	M. Bharu	Internal Assessment and Report (20 Marks)	I 9.7 II 9
Roll No.	21NU1A0229	Outcomes (20 Marks)	18
Program	B.tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	45
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02		
Signature of Course Facilitator with Date		Signature of HoD with Date	



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- (i) From this course, I will be able to describe typical components of a programmable Logic Controller.
- (ii) I will be able to explain the basic concepts of a programmable logic Controller.
- (iii) I will be able to explain and apply the concept of electrical ladder logic, its history, and its relationship to programmed PLC instruction.
- (iv) I will be able to use timer, counter & other intermediate programming functions.
- (v) I will be able to design and program basic PLC circuits for entry-level PLC applications.

M. Bhanu 12/5/23

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

	Submitted by	Marks		
		Internal Assessment: and Report (20 Marks)	I	II
Name	M. Sai Krishna	48	7	
Roll No.	21201A0230	15		
Program	B.Tech (EEE)	10		
Status of Completion	Completed / Not Completed	Total Marks	33	
POs Addressed	PO1 PO2 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02			

*M. Sai Krishna*  
12/5/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through the course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. Now, I am able to describe typical components of a Programmable Logic Controller.
2. I am able to explain and learn the basic concepts of a Programmable Logic Controller.
3. I am able to state logic basic PLC terminology and their meanings.
4. Now I am able to use timer, counter and other intermediate programming functioning.
5. I gain knowledge about basic PLC circuits for entry-level PLC applications.

M. Saikrishna. 12/05/23

Student: Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

	Submitted by	Marks	
		I	II
Name	MUTNURU GAYATRI	Internal Assessment and Report (20 Marks)	9.3 7
Roll No.	21NU1A0231	Outcomes (20 Marks)	12
Program	B.Tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	37
Key Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02		

Signature of Course Facilitator with Date

Signature of HoD with Date







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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks			
Name	NAGUBILLI SUJATHA	Internal Assessment and Report (20 Marks)	I 9.5	II 10	
Roll No.	21NUIA0233	Outcomes (20 Marks)	19		
Program	B.Tech	Final Presentation (10 Marks)	9		
Status of Completion	Completed / Not Completed	Total Marks	48		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO8 PO7 PO9 PO10 PO11 PO12 PO13 PO14			
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) From this course, I will be able to describe typical components of a Programmable Logic Controller.
- 2) I will be able to explain the basic concepts of a PLC (Programmable Logic Controller).
- 3) I learnt about the Ladder diagram in the PLC (Programmable Logic Controller).
- 4) With PLC programming, we can implement any logic.
- 5) From the PLC, we can control a system's functions using the internal logic programmed into it.

N. Sujatha / 14/5/2023  
Student Signature with Date





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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks			
Name	N. Himakrishan	Internal Assessment and Report (20 Marks)	I	II	
			8.5	9	
Roll No.	21N01A0234	Outcomes (10 Marks)	15		
Program	B.Tech (EEE)	Final Presentation (10 Marks)	7		
Status of Completion	Completed / Not Completed	Total Marks	40		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12	PO13 PO14 PO15	PO16	
 12/5/23					
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. Now I am able to describe typical components of a programmable logic controller.
2. I am able to explain and learn the basic concepts of a programmable logic controller.
3. I am able to state basic PLC terminology and their meanings.
4. I gain knowledge about basic PLC circuits for entry level PLC applications.

H.K.B  
12/05/23

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	N. DEVI KIRAN	Internal Assessment and Report (20 Marks)	I 9.3 II 7
Roll No.	21WU1A0235	Outcomes (20 Marks)	15
Program	B.Tech	Final Presentation (10 Marks)	7
Status of Completion	Completed / Not Completed	Total Marks	39
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		
Signature of Course Facilitator with Date		Signature of HoD with Date	





Note: The range '1' through '5' is Weak to Strong  
Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- > I have learned the how to open virtual labs
- > I able to explain about the PLC.
- > I able to learn the study hardware and software.
- > I able to learn the timer and counters
- > I have learned the simulation.
- > I have learned the program
- > I have learned the logic in program
- > I have learned the traffic control
- > I have learned the logic in motor
- > I have learned how to develop the logically program using the programmable logic controller.

Nidurajam  
12/05/23  
Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

	Submitted by	Marks	
		I	II
Name	P. Manikanta Ganesh	Internal Assessment and Report (20 Marks)	9.7 10
Roll No.	21A021A0236	Outcomes (20 Marks)	17
Program	B.tech.	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	45
PCs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2		

*[Signature]*  
12/5/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please

A Programmable logic controller (PLC) is an industrial computer control system that continuously monitor that state of input devices and makes decision based upon a custom program to control the state of output devices. PLC are robust and flexible control solutions that can be adapted to several applications. For instance the CHART products including new energy & automation, building Equipments, instruments & meter, powers transform devices & low voltage devices use the programmable logic controller.

P Manikanta ganesh  
12/05/22  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	P. Paramesh	Internal Assessment and Report (20 Marks)	I 9.7	II 9
Roll No.	RINDIA0237	Outcomes <sup>10</sup> Marks)	12	
Program	B. Tech	Final Presentation (10 Marks)	7	
Status of Completion	Completed / Not Completed	Total Marks	43	
POs Addressed	PO1 PO2 <del>PO3</del> PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15 PO16			
Signature of Course Facilitator with Date 12/5/23		Signature of HoD with Date		

Roll No. : 21NU1A0237-  
 Course Code : 10EE3082  
 Title of the Course : Programmable logic control

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓						✓	
2	I have gained theoretical & practical knowledge		✓					✓	
	a. I have developed my Coding skills	✓				✓			
	b. I have developed a product		✓				✓		
	c. I have developed a system or process		✓			✓			
	d. I have developed my problem solving skills	✓							✓
	e. I have developed a computer based application		✓						✓
	f. I have developed a hardware application	✓							✓
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓						✓	
2	He / She has gained theoretical & practical knowledge		✓						✓
	a. The learner has developed my Coding skills	✓							✓
	b. The learner has developed a product	✓							✓
	c. The learner has developed a system or process	✓							✓
	d. He/She has developed his/her problem solving skills	✓							✓
	e. He/She has developed a computer based application	✓							✓
	f. The learner has developed a hardware application	✓							✓
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By the PLC programming we have learned a lot they are

1. I have learned that how give a ON delay timer & off delay timer
2. The traffic signals logic
3. And by using PLC programming we can do Automatic door opening & closing
4. In Automatic car washing also we use
5. In Automatic car parking
6. By PLC programming, I get to know the bottle filling
7. In PLC programming the logic are very easier than other one
8. It consume low power
9. Capable of handling of very complicated logic operation
10. I have learned Analog signal handling & closed loop control programming

P. Parameswari (12/05/2023)

Student Signature with Date





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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

	Submitted by	Marks	
		Internal Assessment and Report (20 Marks)	I II
Name	P.K. Sowthami	8.7	7
Roll No.	21N01A0239	15	
Program	B.Tech EEE	6	
Status of Completion	Completed / Not Completed	Total Marks	37
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

Signature of Course Facilitator with Date

Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) From this course I will able to describe typical components of a programmable
- 2) I learnt about the Ladder diagrams & how to construct the without writing Ladder diagrams in software program
- 3) By using plc we can control a system's function
- 4) I got to know how to create a Ladder for any program.
- 5) I learnt about the how to use the Ladder diagram in in specific applicable in software program

P.K. S Gowdhami  
12/5/23  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	P. Sini	Internal Assessment and Report (20 Marks)	I 9.1 II 9.
Roll No.	21NU1A0241	Outcomes (10 Marks)	16
Program	B.Tech	Final Presentation (10 Marks)	7
Status of Completion	Completed / Not Completed	Total Marks	42
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14	
Signature of Course Facilitator with Date		Signature of HoD with Date	



Note: The range '1' through '5' is Weak to Strong

Learners **Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. A programmable logic controller (PLC) is a small modular solid state computer with customized instructions for performing a particular task.
2. Students will be able to explain the basic concepts of a programmable logic controller. Students will be able to explain and apply the concept of electrical ladder logic program and least timers and counters.
3. PLCs, which are used in industrial control systems for a wide variety of industries, have largely replaced mechanical relays, drum sequencers and cam timers.
4. PLCs are used in various applications in industries such as the steel industry, automobiles industries, chemical industry and energy sector.

P. Sisir 12/5/23  
Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks			
Name	P. Radhika	Internal Assessment and Report (20 Marks)	I 8.3	II 7	
Roll No.	21ND1A0242	Outcomes (20 Marks)	16		
Program	PLC	Final Presentation (10 Marks)	7		
Status of Completion	Completed / Not Completed	Total Marks	39		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9	PO10	PO11	PO12
 12/15/23					
Signature of Course Facilitator with Date		Signature of HoD with Date			





Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

A programmable logic controller (PLC) is a small modular solid state computer with customized instructions for performing a particular task. PLCs, which are used in industrial control systems (ICS) for a wide variety of industries, have largely replaced mechanical relays, drum sequences and cam timers.

Learning PLC programming is a very important skill. If your job involves programming, then you will likely learn what you need through hand-on experience.

P. Radhika  
18/05/23

Student Signature with Date



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks	
Name	P. Teja sarideep	Internal Assessment and Report (20 Marks)	I: 9.5, II: 9
Roll No.	21N01A0043	Outcomes (10 Marks)	17
Program	B.TECH	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	44
POs Addressed	PO1 PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

*Teja*  
13/01/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date

Roll No. : 21NLS1A0243  
 Course Code : 20EE502  
 Title of the Course : Programmable logic controller

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓						✓	
2	I have gained theoretical & practical knowledge		✓					✓	
	a. I have developed my Coding skills	✓					✓		
	b. I have developed a product		✓					✓	
	c. I have developed a system or process		✓				✓		
	d. I have developed my problem solving skills	✓							✓
	e. I have developed a computer based application		✓						✓
	f. I have developed a hardware application	✓							✓
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓						✓	
2	He/She has gained theoretical & practical knowledge		✓				✓		
	a. The learner has developed my Coding skills	✓							✓
	b. The learner has developed a product	✓							✓
	c. The learner has developed a system or process	✓							✓
	d. He/She has developed his/her problem solving skills	✓						✓	
	e. He/She has developed a computer based application		✓						✓
	f. The learner has developed a hardware application	✓							✓
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

PLCs act as the physical interfaces between devices on the plant or manufacturing floor and a SCADA or HMI system. PLCs can communicate, monitor, and control complex automated processes such as conveyors, temperature control, robot cells and many other industrial machines.

P. Teja Sandeep  
Student Signature with Date

12/05/23





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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks												
Name	P. Siva Ramesh	Internal Assessment and Report (20 Marks)	I 8.7	II 8										
Roll No.	21NW1A0244	Outcomes (10 Marks)	12											
Program	B-Tech	Final Presentation (10 Marks)	8											
Status of Completion	Completed / Not Completed	Total Marks	37											
POs Addressed	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO17
Signature of Course Facilitator with Date		Signature of HoD with Date												



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By the PLC programming we have learned a lot they are:

- \* I have learned that how give a On delay & off delay timer.
- \* the traffic signals logic.
- \* and by using PLC programming we can do automatic door opening & closing
- \* In automatic car washing, car parking we can use.
- \* By PLC programming I got to know the bottle filling.
- \* In PLC programming the logic are very easier than other one.
- \* It consume low power.
- \* I have learned analog signal handling and closed loop control program

A Sita Ramiah

19-5-23

Student Signature with Date



The first part of the paper is devoted to a general  
 discussion of the problem. It is shown that the  
 problem is equivalent to a problem in the theory of  
 differential equations. The second part of the paper  
 is devoted to a detailed study of the problem in the  
 case of a certain class of functions. It is shown that  
 the problem is solvable in this case. The third part  
 of the paper is devoted to a study of the problem in  
 the case of a certain class of functions. It is shown  
 that the problem is solvable in this case. The fourth  
 part of the paper is devoted to a study of the problem  
 in the case of a certain class of functions. It is shown  
 that the problem is solvable in this case.

11

The author is indebted to  
 the referee for his valuable  
 suggestions.



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## Assessment Report Skill Oriented Course

Academic Year 2022 - 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	P. Bhagya Lakshmi	Internal Assessment and Report (20 Marks)	I 9.5	II 9.	
Roll No.	21NUIA0245	Outcomes (20 Marks)	16		
Program	B. Tech	Final Presentation (10 Marks)	7		
Status of Completion	Completed / Not Completed	Total Marks	42		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12	PO13 PO14 PO15		
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. A programmable logic controller or programmable controller is an industrial computer that has been for the control manufacturing process, such as assembly lines, programming process fault diagnosis.
2. students will be able to explain the basic concept of a programmable logic controller. students will be able to explain and apply the concept of electrical ladder logic program and a timer and counters.
3. programmable logic controller main important of ladder programs.
4. plc are used in various applications in industries.

P. Bhagya Lakshmi  
Student Signature with Date 12/5/23

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author details the process of reconciling bank statements with the company's internal records. This involves comparing the opening and closing balances, as well as the total debits and credits for each period. Any discrepancies should be investigated immediately to identify errors or unauthorized transactions.

The third section covers the preparation of financial statements, including the balance sheet, income statement, and cash flow statement. It provides a step-by-step guide on how to calculate each component and how they relate to one another. The author also discusses the importance of reviewing these statements regularly to assess the company's financial health.

Finally, the document concludes with a summary of key takeaways and a list of resources for further learning. It encourages readers to stay up-to-date on the latest accounting practices and to seek professional advice when needed.

$$\begin{aligned}
 & \text{Total Assets} = \text{Total Liabilities} + \text{Equity} \\
 & \text{Total Liabilities} = \text{Accounts Payable} + \text{Notes Payable} + \text{Long-Term Debt} \\
 & \text{Equity} = \text{Common Stock} + \text{Retained Earnings}
 \end{aligned}$$



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	P. Krishna Vardhan	Internal Assessment and Report (20 Marks)	I 67	II 7	
Roll No.	21NVMA0246	Outcomes (10 Marks)	15		
Program	B. Tech.	Final Presentation (10 Marks)	6		
Status of Completion	Completed / Not Completed	Total Marks	37		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14				
Signature of Course Facilitator with Date		Signature of HoD with Date			

17/5/23

17/5/23



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten to fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- I have learned that how to 'on' delay and off delay timer
- 2) the traffic signals logic
- 3) and by using PIC programming we can do Automatic door opening & closing
- 4) In Automatic car washing & Parking
- 5) By PIC programming the logic are very easier than one
- 6) Its power consumes is low.
- 7) I have learned analog signal handling and closed loop control programming.

Student Signature with Date





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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

	Submitted by	Marks	
		Internal Assessment and Report (20 Marks)	I II
Name	P. Deepthi	39	7
Roll No.	B1NV1A0247	26	
Program	B.Tech	7	
Status of Completion	Completed / Not Completed	Total Marks	39
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PBD1 P5O12		

Signature of Course Facilitator with Date  
12/15/23

Signature of HoD with Date



**Note:** The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

A programmable logic controller or programmable controller is an industrial computer that has been for the control manufacturing process, such as assembly lines, programming fault diagnosis.

Students will be able to explain the basic concepts of a programmable logic controller. Students will be able to explain and apply the concept of electrical ladder logic program and I/O timer and counters.

PLCs, which are used in industrial control system for a wide variety of industries have largely replaced mechanical relays, drum sequencers and cam timers.

PLCs are used in various different applications in industries such as the steel industry, automobiles industries, chemical industry and energy sector.

P. Anand 15/12/23

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
		Internal Assessment and Report (20 Marks)	I II
Name	R. Kattik	87	4
Roll No.	212001A0248		10
Program	B. Tech		6
Status of Completion	Completed / Not Completed	Total Marks	29
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

Signature of Course Facilitator with Date  
12/10/23

Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen, solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their DWM WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

Programmable logic controller (PLC)  
Programming states during the  
definition phase of a project while  
generating the design documentation

R. Karthik

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
		I	II
Name	S. Poonachandra Rao	Internal Assessment and Report (20 Marks)	8.9 / 9
Roll No.	2110VJ1A0249	Outcomes (20 Marks)	16
Program	B.tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	42
POs Achieved	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02		

Signature of Course Facilitator with Date  
12/6/23

Signature of HoD with Date





Note: The range '1' through '3' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - (10) solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- In Automatic car washing also we use.
- In Automatic car parking
- The traffic signal logic
- I have learned Analog signal handling & closed loop control programming
- PLC's are used in various applications in industries such as the steel industry, automobile industries, and energy sector



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks		
Name	S. YESWARTH.	Internal Assessment and Report (20 Marks)	I 17	II 7
Roll No.	21NUIA0250	Outcomes Marks)	15	
Program	B. TECH	Final Presentation (10 Marks)	6	
Status of Completion	Completed / Not Completed	Total Marks	37	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14			

*u*  
12/10/23  
Signature of Course Facilitator with Date

*Recap*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

PLC Technicians are critical Thinking skills, manual dexterity, mechanical aptitude, attention to detail, strong problem-solving skills, communication skills, and mathematical and scientific aptitude.

By the PLC programming we have learned a lot they are.

1. have learned that how give a on delay timer & off delay timer in automatic car parking.

It consume low power.

And by using PLC programming we can do automatic door opening and closing.

S. Yeswanth  
12/05/23  
Student Signature with Date



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks	
Name	S. MANICANTA SWAMY.	Internal Assessment and Report (20 Marks)	I: 8.9, II: 7
Roll No.	21NU1A0251	Outcomes (10 Marks)	15
Program	B. Tech	Final Presentation (10 Marks)	6
Status of Completion	Completed / Not Completed Completed	Total Marks	37
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PBO1 PBO2		

*[Signature]*  
12/15/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

students will be able to explain the basic concept of a programmable Logic controller. students will be able to explain and concept of electrical ladder logic program. A programmable Logic controller or programmable controller is an industrial computer that has been for the control manufacturing process, such as assembly lines, programming process fault diagnosis & have learnt more basic concepts in plc main important of plc ladder program

S. Manikanta  
Student Signature with Date

12/05/23



**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



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SONTYAM, Pondurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph: 966624187, 800464546, www.nsril.edu.in

## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks		
Name	S. Kethan Subhash	Internal Assessment and Report (20 Marks)	I	II
			8.9	4
Roll No.	21NVA253	Outcomes (10 Marks)	16	
Program	B-Tech	Final Presentation (10 Marks)	5	
Status of Completion	Completed / Not Completed	Total Marks	34	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO8 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO12			
Signature of Course Facilitator with Date		Signature of HoD with Date		





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

A programmable Logic Controller (PLC) is an industrial computer control system that continuously monitors that state of input devices and makes decisions based upon a custom program to control the state of output devices. PLC are what a flexible control solutions that can be adapted to several applications. for instance the current products including new Energy & Automation, building Equipment, instruments & networks, power transform devices & low voltage devices, all the programmable Logic Controller.

S. Kethan 12/05/23  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	TANARAJU UPENDRA	Internal Assessment and Report (20 Marks)	I 9.6	II 7
Roll No.	21NUTA0254	Outcomes (10 Marks)	17	
Program	B.Tech	Final Presentation (10 Marks)	8	
Status of Completion	Completed / Not Completed	Total Marks	44	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14			
	✓ ✓			
Signature of Course Facilitator with Date	M 12/15/23	Signature of HoD with Date	T. C. B. P.	



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- > Analyze and Get the idea of control Application
- > List All the conditions and get the design using  
    . Flow chart
- > Open and configure the PLC programming  
    Software
- > Add the required inputs and address them
- > Ladder Logic
- > Structured text.
- > Function block diagram

\* An Industrial computer control System that continuously monitors the state of input devices and makes decisions based upon a custom program to control the state of output devices.

I. Sridhar  
12/05/23  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	TEEGALA SRAVANTHI	Internal Assessment and Report (20 Marks)	I 97 II 9
Roll No.	21NUIA0255	Outcomes (10 Marks)	18
Program	B-Tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	45
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		
Signature of Course Facilitator with Date	Signature of HoD with Date		



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1) From the PLC we will learn about sequence of operations and ladder logic programming.

2) By seeing the ladder logic we can easily the logic and this logic can be applicable to other applications.

3) PLC has a easy installation and operation

4) From the PLC we will able to learn the logics for logic gates.

5) From the PLC we can control a system functions and we can learn about the controllers.

T. Sravanthi  
12/5/2023

Student Signature with Date





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## Assessment Report Skill Oriented Course

Academic Year 2022 ~ 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	UPPALAPATI VARSHITHA	Internal Assessment	I II
		and Report (20 Marks)	9.6 9
Roll No.	ZINUIAD256	Outcomes (20 Marks)	17
Program	B.TECH	Final Presentation (10 Marks)	7
Status of Completion	Completed / Not Completed	Total Marks	43
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02		
Signature of Course Facilitator with Date		Signature of HoD with Date	



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) After completion of this PLC course we can able to understand PLC programs and algorithms.
- 2) From the PLC course we can easily implement the ladder logics.
- 3) PLC is a real time application and it is flexible.
- 4) From the PLC we will be able to explain basic components of counters, timers, controllers etc...
- 5) So, we can easily design logics and ladder programs
- 6) This is one of the best wireless communication technology

O. Varshita .

Student Signature with Date



**NADIMPALLI SATYANARAYANA RAJU  
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(AUTONOMOUS)**



Approved by AICTE, New Delhi (Affiliation No. 14) and by AACSB (ACCREDITED), ISO 9001:2015 (Certified Institution)  
Recognized under 2(F) of the UGC Act, 1956 & Approved by NAAC with 'A' Grade (3, 10th 202)  
MCHTYAM, P.O. Sanyalpur, Amalapuram Highway, Madhavaram - 531 173, PIN: 0893103-1167, 800046&tel@nsrit.ac.in

# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

	Submitted by	Marks	
		I	II
Name	V. Diwakan	Internal Assessment and Report (20 Marks)	9.4 8
Roll No.	21NUIA0257	Outcomes (20 Marks)	16
Program	B.tech (EEE)	Final Presentation (10 Marks)	6
Status of Completion	Completed / Not Completed	Total Marks	40
POs Addressed	PO1 PO2 <del>PO3</del> <del>PO4</del> PO5 PO6 PO8 PO9 PO10 PO11 PO12	PSO1	PSO2

Signature of Course Facilitator with Date  
12/6/23

Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. I am able to explain and learn the basic concepts of a Programmable Logic Controller
2. I gain knowledge about basic PLC circuits for entry level PLC applications.
3. I am able to state basic PLC terminologies and their meanings.

V. Divya  12/5/23  
Student Signature with Date



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)



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SOUTH AM. Institute - Adilabaturam Highway, Visakhapatnam - 531173, Ph: 9005021107, 000464640, www.nsrit.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by	Marks		
	Internal Assessment and Report (20 Marks)	I	II
Name <i>V. Chandra sekhar</i>		<i>9.1</i>	<i>7</i>
Roll No. <i>21NU1A0256</i>	Outcomes (20 Marks)	<i>15</i>	
Program <i>B.Tech</i>	Final Presentation (10 Marks)	<i>7</i>	
Status of Completion: <i>Completed</i>	Total Marks	<i>39</i>	
PS01	PS02	PS03	PS04
PS05	PS06	PS07	PS08
PS09	PS10	PS11	PS12

*12/15/23*  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By the plc programming we have learned a lot they are.

- 1) I have learned that how give a ON delay times & off delay times.
- 2) The traffic signals logic
- 3) And by using plc programming we can do automatic doors opening & closing.
- 4) In automatic car <sup>washing</sup> ~~washing~~ and we can
- 5) In automatic car parking
- 6) By plc programming, I get to know the bottle filling.
- 7) In plc programming the logics are very easier than other one.
- 8) It consume low power.
- 9) capable of handling of very complicated logic operation.



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SONTYAM, Pandurajam - Anandapuram Highway, Visakhapatnam - 531173, Ph : 9885824187, 9098846548, [www.nsril.edu.in](http://www.nsril.edu.in)

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	B. CHANDU	Internal Assessment and Report (20 Marks)	I 8 II 7
Roll No.	22 NUSA0201	Outcomes (20 Marks)	17
Program	B. tech.	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	40
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		
Signature of Course Facilitator with Date		Signature of HoD with Date	



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- \* In automatic car washing also we use.
- \* In automatic car parking.
- \* By PLC programming, I get to ~~the~~ know the bottle filling application.
- \* The traffic signals logic.
- \* I have learned analog signal handling & closed loop control programming.
- \* PLC's are used in various applications in industries such as the steel industry, automobiles industries, chemical industry and energy sector.

B.Chandru  
12-05-2023

Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks			
Name	B. Swathi Kumar	Internal Assessment and Report (20 Marks)	I	II	
			8	7	
Roll No.	22NU5A0202	Outcomes (20 Marks)	13		
Program	B.tech	Final Presentation (10 Marks)	6		
Status of Completion	Completed / Not Completed	Total Marks	34		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14				
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- > Before learning this course i have very less knowledge about PLC. After learning this course i can improve practical knowledge and theoretical knowledge.
- > I have developed my Problem Solving Skills.
- > I have developed my coding skills.
- > I have improved my knowledge on PLC after learning this course

B. Sravathikumar  
12/05/2023

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	B. Sai Kiran	Internal Assessment and Report (20 Marks)	I 07	II 7
Roll No.	22NU5A0203	Outcomes (10 Marks)	14	
Program	BEECH	Final Presentation (10 Marks)	6	
Status of Completion	Completed / Not Completed	Total Marks	30	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15 PO16			
Signature of Course Facilitator with Date M 12/5/23		Signature of HoD with Date H 12/5/23		





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By the PLC programming we have learned a lot they are

- (1) I have learned that how give a ON delay, timer & off delay timer
- (2) The traffic signals logic
- (3) and by using PLC programming we can be do automatic door opening & closing.
- (4) In automatic car washing also we use
- (5) In automatic car parking.
- (6) In PLC programming the logic are timer, counter & other
- (7) By PLC programming I get to know the bottle filling.
- (8) It consume low power
- (9) Capable of handling of very complicated logic operation
- (10) I have learned analog signal handling, e.g. closed loop control programming.

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	CH. MOHAN VASU KIRAN	Internal Assessment and Report (20 Marks)	I	II	
			9.1	8	
Roll No.	22NU5A0204	Outcomes (20 Marks)	12		
Program	B.tech	Final Presentation (10 Marks)	7		
Status of Completion	Completed / Not Completed	Total Marks	37		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15				
Signature of Course Facilitator with Date 17/1/23		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

PLC is used to automate and control manufacturing process, machinery and equipment in a wide range of industries.

And I know about, what it consists of a processor unit, input/output (I/O) modules memory, power supply and communication interfaces. The processor unit etc.

PLC are highly reliable and can operate in harsh environment, including extreme temperature, humidity

This information I learned from PLC

C. Mohan

12/01/23

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	CH. BHAVYA.	Internal Assessment and Report (20 Marks)	I 9.7 II 8
Roll No.	28NUSAB205	Outcomes (20 Marks)	18
Program	B-Tech.	Final Presentation (10 Marks)	9
Status of Completion	Completed / Not Completed	Total Marks	45
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

Signature of Course Facilitator with Date  
17/5/23

Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- ⇒ In PLC, I learnt how to work PLC programming in computer.
- ⇒ How to perform coding skill and applications of PLC.
- ⇒ I have learnt in PLC lab how to set timers and counters.
- ⇒ Before learning, after learning there is a lot of difference. After learning I clear that what I know, it is very useful and important in future projects.
- ⇒ And PLC is widely used in industries, companies and institutes.
- ⇒ PLC lab is very essential and very useful in future.

Ch. Bhavya  
Student Signature with Date 12/05/23.





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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	D. Raviteja	Internal Assessment and Report (20 Marks)	I: 8, II: 7
Roll No.	222005A0206	Outcomes (20 Marks)	14
Program	B.TECH	Final Presentation (10 Marks)	7
Status of Completion	Completed / Not Completed Completed	Total Marks	35
POs Achieved	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15		
Signature of Course Facilitator with Date D. Raviteja 17/5/23		Signature of HoD with Date T. K. S. P.	



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- ① I have learned a knowledge for PLC applications.
- ② I have learned for logic of PLC
- ③ I have learned with how PLC use for day to day daily life applications.
- ④ I have learned for ladder logic of PLC
- ⑤ I know how to read.
- ⑥ In this PLC the logic is very easy.
- ⑦ The traffic signal logic
- ⑧ I have learned that how give a on delay timer and off delay timer
- ⑨ In automatic GH, packing.
- ⑩ I can use PLC for automatic irrigation system
- ⑪ In Automatic washing also we use

B. Praveen 12-5-2023.

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	KORADA NARENDRA	Internal Assessment and Report (20 Marks)	I	II	9
			9.5		
Roll No.	22N05A0307	Outcomes (10 Marks)	17		
Program	B.Tech	Final Presentation (10 Marks)	8		
Status of Completion	Completed / Not Completed	Total Marks	44		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14				
Signature of Course Facilitator with Date		Signature of HoD with Date			



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- \* At industrial circuit the PLC worked on many uses.
- \* By automation the day is so easier day by day.
- \* By learning this PLC programming my coding skill and applications of PLC.
- \* PLC Lab is very essential and very useful in future.
- \* PLC are highly reliable and can operate in environment, including extreme.

*K. Narendra*  
12/5/23  
Student Signature with Date



**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



Approved by AICTE, New Delhi (Affiliation Letter, Kanchi # An-50/901/150-1/2014-2015) Co-located  
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SOMAYAJI, Pendurthi - Anaparthi Highway, Visakhapatnam - 531173, Ph: 0985824167, 8099484548 www.nsr.it.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	M. Gnaneswar	Internal Assessment and Report (20 Marks)	I 8.7	II 7
Roll No.	22 NUSA0208	Outcomes Marks)	13	
Program	B. Tech	Final Presentation (10 Marks)	7	
Status of Completion	Completed / Not Completed	Total Marks	36	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO14 PO12			
Signature of Course Facilitator with Date M 12/15/23		Signature of HoD with Date Hc k p		

Roll No. : 22NUSA0208  
 Course Code : 20EC302  
 Title of the Course : PLC

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge		✓						✓
	I have gained theoretical & practical knowledge		✓						✓
	a. I have developed my Coding skills		✓						✓
	b. I have developed a product		✓						✓
2	c. I have developed a system or process	✓							✓
	d. I have developed my problem solving skills		✓						✓
	e. I have developed a computer based application	✓							✓
	f. I have developed a hardware application	✓						✓	
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓							✓
	He / She has gained theoretical & practical knowledge		✓						✓
	a. The learner has developed my Coding skills	✓							✓
	b. The learner has developed a product	✓							✓
2	c. The learner has developed a system or process	✓							✓
	d. He/She has developed his/her problem solving skills	✓							✓
	e. He/She has developed a computer based application	✓							✓
	f. The learner has developed a hardware application	✓							✓
3	Any others, please specify								



Note: The range '1' through '5' is Weak to Strong . . .

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1.) I have learned constructing ladder diagrams.
- 2.) Studied about Timers and Counters.
- 3.) Developed applications on Oob Starters.
- 4.) Learned about PID controllers.

M. Giraneswar 15/5/23  
Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks	
Name	NAKHA VEERA	Internal Assessment	I
	KANNARA MANI LAKSHMI	and Report (20 Marks)	II
Roll No.	22NUSAO209	9.4	9
		Outcomes (10 Marks)	16
Program	B - Tech	Final Presentation (10 Marks)	8
		Total Marks	43
Status of Completion	Completed / Not Completed		
	Completed ✓		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02		
	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		

Signature of Course Facilitator with Date  
  
 12/15/22

Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1) I have learned How the PLC is working.
- 2) I have learned and performed the PLC Programme.
- 3) I have learned How the PLC is working in several applications.
- 4) The PLC is Automatic solution for many Applications.
- 5) I have learned How to use plc programme for temperature control.
- 6) PLC are used in various applications in industries such as the steel industry automobile industries, chemical industry and energy sector.

N. Mahalakshmi 12/5/23  
Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by	Marks		
	Internal Assessment and Report (20 Marks)	I	II
Name : N. Ganesh.		87	7
Roll No. : 22NU5A0210	Outcomes (20 Marks)	17	
Program : B-Tech.	Final Presentation (10 Marks)	6	
Status of Completion : <input checked="" type="checkbox"/> Completed / <input type="checkbox"/> Not Completed	Total Marks	39	
PO- Addressed	PO1	PO2	PO3
	PO4	PO5	PO6
	PO7	PO8	PO9
	PO10	PO11	PO12
	PS01	PS02	PS03
	PS04	PS05	PS06
	PS07	PS08	PS09
	PS10	PS11	PS12

Signature of Course Facilitator with Date  
12/15/23

Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong  
Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learn-  
outcomes regarding the skills, knowledge or any sort of product development gained through the  
course in their OWN WORDS). Please attach additional sheets in case of any sample programs  
product development. In case of product development, it should be submitted to the respective court  
instructor, please.

By the PLC programming we have learned  
a lot they are!

- > I have learned that how time on delay  
& off delay timer.
- > And by using PLC programming we  
can do automatic door opening & closing.
- > By PLC programming I get to know to  
bottle filling.
- > The traffic signals logic.
- > it assure low power.
- > In PLC programming the logic are very  
easier than other one.









Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten- fifteen word learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. In This course i have learned The logic of ladder diagram
2. With The help of PLC, we are able To get idea on The how The PLC will be Implemented on The Industrial Applications
3. In this course we are able to understand PLC programs and algorithms
- 4) From The PLC we can control a system functions and we can learn about the controllers
5. so, by this course we can easily design ladder Logic Programs

  
Student Signature with Date



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SONTYAM, Post: 1B, AP-Indraprastha Highway, Visakhapatnam - 531173, Ph: 9849824162, 9994441548, www.nsr.it.edu.in

## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks		
		Internal Assessment and Report (20 Marks)	I	II
Name	P. NANDINI		57	8
Roll No.	22NVSA0212	Outcomes (10 Marks)	17	
Program	B.Tech	Final Presentation (10 Marks)	7	
Status of Completion	Completed / Not Completed	Total Marks	41	
POs Addressed				
	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15 PO16			

  
 Signature of Course Facilitator with Date

  
 Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

PLC is used to automate and control manufacturing process, machinery and equipment in a wide range of industries.

And I know about, what it consists of a processor unit, input/output (I/O) modules, memory, power supply and

communication interfaces. The processor unit etc.

PLC are highly reliable and can operate in environment, including extreme

This information I learned from PLC

P. Nandini  
12/5/23  
Student Signature with Date



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INSTITUTE OF TECHNOLOGY  
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(Approved by AICTE, New Delhi) Affiliated to J. J. S. University, Rajamahendravaram (UO 19301/19302/19303/19304/19305/19306/19307/19308/19309/19310/19311/19312/19313/19314/19315/19316/19317/19318/19319/19320/19321/19322/19323/19324/19325/19326/19327/19328/19329/19330/19331/19332/19333/19334/19335/19336/19337/19338/19339/19340/19341/19342/19343/19344/19345/19346/19347/19348/19349/19350/19351/19352/19353/19354/19355/19356/19357/19358/19359/19360/19361/19362/19363/19364/19365/19366/19367/19368/19369/19370/19371/19372/19373/19374/19375/19376/19377/19378/19379/19380/19381/19382/19383/19384/19385/19386/19387/19388/19389/19390/19391/19392/19393/19394/19395/19396/19397/19398/19399/19400/19401/19402/19403/19404/19405/19406/19407/19408/19409/19410/19411/19412/19413/19414/19415/19416/19417/19418/19419/19420/19421/19422/19423/19424/19425/19426/19427/19428/19429/19430/19431/19432/19433/19434/19435/19436/19437/19438/19439/19440/19441/19442/19443/19444/19445/19446/19447/19448/19449/19450/19451/19452/19453/19454/19455/19456/19457/19458/19459/19460/19461/19462/19463/19464/19465/19466/19467/19468/19469/19470/19471/19472/19473/19474/19475/19476/19477/19478/19479/19480/19481/19482/19483/19484/19485/19486/19487/19488/19489/19490/19491/19492/19493/19494/19495/19496/19497/19498/19499/19500/19501/19502/19503/19504/19505/19506/19507/19508/19509/19510/19511/19512/19513/19514/19515/19516/19517/19518/19519/19520/19521/19522/19523/19524/19525/19526/19527/19528/19529/19530/19531/19532/19533/19534/19535/19536/19537/19538/19539/19540/19541/19542/19543/19544/19545/19546/19547/19548/19549/19550/19551/19552/19553/19554/19555/19556/19557/19558/19559/19560/19561/19562/19563/19564/19565/19566/19567/19568/19569/19570/19571/19572/19573/19574/19575/19576/19577/19578/19579/19580/19581/19582/19583/19584/19585/19586/19587/19588/19589/19590/19591/19592/19593/19594/19595/19596/19597/19598/19599/19600/19601/19602/19603/19604/19605/19606/19607/19608/19609/19610/19611/19612/19613/19614/19615/19616/19617/19618/19619/19620/19621/19622/19623/19624/19625/19626/19627/19628/19629/19630/19631/19632/19633/19634/19635/19636/19637/19638/19639/19640/19641/19642/19643/19644/19645/19646/19647/19648/19649/19650/19651/19652/19653/19654/19655/19656/19657/19658/19659/19660/19661/19662/19663/19664/19665/19666/19667/19668/19669/19670/19671/19672/19673/19674/19675/19676/19677/19678/19679/19680/19681/19682/19683/19684/19685/19686/19687/19688/19689/19690/19691/19692/19693/19694/19695/19696/19697/19698/19699/19700/19701/19702/19703/19704/19705/19706/19707/19708/19709/19710/19711/19712/19713/19714/19715/19716/19717/19718/19719/19720/19721/19722/19723/19724/19725/19726/19727/19728/19729/19730/19731/19732/19733/19734/19735/19736/19737/19738/19739/19740/19741/19742/19743/19744/19745/19746/19747/19748/19749/19750/19751/19752/19753/19754/19755/19756/19757/19758/19759/19760/19761/19762/19763/19764/19765/19766/19767/19768/19769/19770/19771/19772/19773/19774/19775/19776/19777/19778/19779/19780/19781/19782/19783/19784/19785/19786/19787/19788/19789/19790/19791/19792/19793/19794/19795/19796/19797/19798/19799/19800/19801/19802/19803/19804/19805/19806/19807/19808/19809/19810/19811/19812/19813/19814/19815/19816/19817/19818/19819/19820/19821/19822/19823/19824/19825/19826/19827/19828/19829/19830/19831/19832/19833/19834/19835/19836/19837/19838/19839/19840/19841/19842/19843/19844/19845/19846/19847/19848/19849/19850/19851/19852/19853/19854/19855/19856/19857/19858/19859/19860/19861/19862/19863/19864/19865/19866/19867/19868/19869/19870/19871/19872/19873/19874/19875/19876/19877/19878/19879/19880/19881/19882/19883/19884/19885/19886/19887/19888/19889/19890/19891/19892/19893/19894/19895/19896/19897/19898/19899/19900/19901/19902/19903/19904/19905/19906/19907/19908/19909/19910/19911/19912/19913/19914/19915/19916/19917/19918/19919/19920/19921/19922/19923/19924/19925/19926/19927/19928/19929/19930/19931/19932/19933/19934/19935/19936/19937/19938/19939/19940/19941/19942/19943/19944/19945/19946/19947/19948/19949/19950/19951/19952/19953/19954/19955/19956/19957/19958/19959/19960/19961/19962/19963/19964/19965/19966/19967/19968/19969/19970/19971/19972/19973/19974/19975/19976/19977/19978/19979/19980/19981/19982/19983/19984/19985/19986/19987/19988/19989/19990/19991/19992/19993/19994/19995/19996/19997/19998/19999/20000)

# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	Internal Assessment and Report (20 Marks)	I	II
S. LEELA PRASANNA		83	7
Roll No.	Outcomes (20 Marks)		
22NUSA0213		15	
Program	Final Presentation (10 Marks)		
B. TECH		6	
Status of Completion	Total Marks		
Completed / Not Completed Completed		37	
PCs increased	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15		

*[Signature]*  
12/5/23  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor please.

- \* I have learned ladder diagrams.
- \* I have learned plc starter.
- \* I have learned counter's & timers.
- \* I have learned addition, sub. & multiplication.
- \* I have learned logic diagrams.

  
Student Signature with Date





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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	B.VEERESH HANI KANTA	Internal Assessment and Report (20 Marks)	I 9.1	II 7	
Roll No.	22NU5A0214	Outcomes (20 Marks)	15		
Program	B.tech	Final Presentation (10 Marks)	7		
Status of Completion	Completed / Not Completed ✓ ✓	Total Marks	39		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10	PO11 PO12	PO13	PO14
Signature of Course Facilitator with Date M 12/5/23		Signature of HoD with Date Feb 6			



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

PLC is used to automate and control manufacturing process, machinery and equipment in a wide range of industries.

And I know about, what it consists of a processor unit, input/output (I/O) modules, memory, power supply, and communication interfaces. The processor unit etc.

PLC are highly reliable and can operate in harsh environments, including extreme temperatures, humidity.

This information I learned from PLC.

B.veeresh Monikanta

Student Signature with Date

12-05-23



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

	Submitted by	Marks	
		I	II
Name	A. Divya		
		Internal Assessment and Report (20 Marks)	
		8.27	8.93
Roll No.	20NVIA0201		
		Outcomes (20 Marks)	
		19	
Program	B. Tech		
		Final Presentation (10 Marks)	
			9
Status of Completion	Completed / Not Completed		
	Completed	Total Marks	47
POs Addressed	<input checked="" type="checkbox"/> PO1 <input type="checkbox"/> PO2 <input type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PSO1 <input type="checkbox"/> PSO12		

*Subha Ravi* 22/5/23  
Signature of Course Facilitator with Date

*[Signature]* 22/5/23  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. By learning PSpice, I can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors, and operational amplifiers. I will learn how to create and simulate circuit designs using these components.
2. PSpice allows to simulate circuits and analyze their behavior before physically implementing them. I will learn various simulation techniques.
3. PSpice is widely used in academia and the industry for educational and professional purposes.
4. By learning PSpice, I acquire a skillset that is applicable in various fields, including electrical engineering, electronics design, research and development.

A. Divya  
Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks				
Name	A. Bhagada	Internal Assessment and Report (20 Marks)	I	II		
			8.40	8.67		
Roll No.	20NU1A0202	Outcomes (10 Marks)		19		
Program	B. Tech	Final Presentation (10 Marks)		9		
Status of Completion	Completed / Not Completed	Total Marks		47		
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO8 PO9 PO10 PO11 PO12 PO13 PO14					
	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>					
Signature of Course Facilitator with Date		Signature of HoD with Date				
A. Bhagada 22/5/23		P. Srinivas 22/5/23				





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- \* Pspice is a powerful software tool used for electronic circuit design and analysis.
- \* The Pspice is you can gain a deep understanding of the circuit theory including concepts such as resistors, capacitors, inductors, diodes and operational amplifier.
- \* Pspice allows you to simulate the circuits and analyze the behavior before physically implementing them.
- \* Pspice provide tools for trouble shooting and debugging circuits.
- \* Pspice analysis you to evaluate circuit performance metrics such as Voltage levels current flow, Power dissipation, frequency analysis.

A. Bhargava  
17/05/2023.  
Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks				
Name	A. POLIVINAY	Internal Assessment and Report (20 Marks)	I 8.53	II 9.47		
Roll No.	20NUIA0203	Outcomes (10 Marks)	19			
Program	B. Tech	Final Presentation (10 Marks)	10			
Status of Completion	Completed / Not Completed Completed	Total Marks	48			
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15					
Signature of Course Facilitator with Date <i>Lisha Rana</i> 22/5/23		Signature of HoD with Date <i>R. Srinivas</i> 22/5/23				



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Pspice allows you to simulate circuit and analyze their behaviour before physically implementing them.
- Pspice is a powerful software tool used for electronic circuit design and analysis.
- By learning Pspice you can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and operational Amplifiers.
- You can learn various simulation techniques such as transient analysis, AC analysis, DC sweep analysis, parameter sweeping, and Monte Carlo analysis. These techniques help you to understand circuit performance, limitations

A. POLI VINAY  
13/5/23

Student Signature with Date



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

	Submitted by	Marks	
		I	II
Name	A. Aswini		
Roll No.	20NUIA0205		
Program	B.Tech		
Status of Completion	Completed / Not Completed		
POs Addressed	<input checked="" type="checkbox"/> PO1 <input checked="" type="checkbox"/> PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PSO1 <input type="checkbox"/> PSO12		
		Internal Assessment and Report (30 Marks)	8.67 8.45
		Outcomes (10 Marks)	19
		Final Presentation (10 Marks)	9
		Total Marks	47

*Lusha Ravi*  
Signature of Course Facilitator with Date 22/5/23

*P. Anant*  
Signature of HoD with Date 22/5/23



Note: The range 'f' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning Pspice, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

Pspice is a powerful software tool used for electronic circuit design and analysis. By learning Pspice, I can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors, and operational amplifiers. I will learn how to create and simulate circuit designs using these components.

I will learn various simulation techniques, such as transient analysis, AC analysis, DC sweep analysis, parameter sweeping. These techniques help to understand circuit performance, limitations.

Pspice is widely used in academic and the industry for educational and professional purpose.

A. Aswini

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	Ch. Chudamani	Internal Assessment and Report (10 Marks)	I 8.8 II 9.2
Roll No.	20NUTAO207	Outcomes (10 Marks)	19
Program	B.Tech	Final Presentation (10 Marks)	9
Status of Completion	Completed / Not Completed	Total Marks	47.
POs Addressed	<input checked="" type="checkbox"/> PO1 <input checked="" type="checkbox"/> PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PO13		

*Chudamani*  
Signature of Course Facilitator with Date

*R. B. ...*  
Signature of HoD with Date



Roll No. : 20201900207  
 Course Code : 20EE504  
 Title of the Course : RSPICE

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓						✓	
	I have gained theoretical & practical knowledge		✓					✓	
	a. I have developed my Coding skills	✓						✓	
	b. I have developed a product	✓						✓	
2	c. I have developed a system or process	✓							✓
	d. I have developed my problem solving skills		✓				✓		
	e. I have developed a computer based application	✓						✓	
	f. I have developed a hardware application	✓						✓	
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓						✓	
	He / She has gained theoretical & practical knowledge	✓						✓	
	a. The learner has developed my Coding skills	✓						✓	
	b. The learner has developed a product	✓						✓	
2	c. The learner has developed a system or process		✓						✓
	d. He/She has developed his/her problem solving skills	✓							✓
	e. He/She has developed a computer based application	✓						✓	
	f. The learner has developed a hardware application	✓							✓
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning Pspice, ~~you~~ I can gain several valuable knowledge and skills related to circuit simulation and analysis.

Pspice is a powerful software tool used for electronic circuit design and analysis.

By learning Pspice, I can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes and operational amplifiers.

Pspice allows to simulate circuits and analyze their behaviour before physically implementing them.

We will learn various simulation techniques, such as transient analysis, AC analysis, DC sweep analysis. These techniques help to understand circuit performance, characteristics and limitations.

Pspice is widely used in academic and the industry for educational and professional purposes.

Ch. Chudamani

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	Ch. Janani	Internal Assessment and Report (20 Marks)	I 8.93 II 8.27
Roll No.	2020V1A0208	Outcomes (20 Marks)	18
Program	B. Tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	45
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15		
	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Signature of Course Facilitator with Date <i>Rishu Ravi</i> 22/5/23		Signature of HoD with Date <i>R. Deenid</i> 22/5/23	



**Note:** The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. PSpice is a powerful software tool used for electronic circuit design and analysis. By learning PSpice, I can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors, and operational amplifiers.
2. I will learn how to create and simulate circuit designs using these components.
3. I will learn various simulation techniques such as transient analysis, AC analysis, DC sweep analysis, parameter sweeping, and monte carlo analysis. These techniques help you understand circuit.
4. PSpice is often integrated with PSpice design software, allowing to create schematics, perform simulations, and generate layout files.

Ch. Jagan  
Student Signature with Date



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks	
Name	D. Dinesh	Internal Assessment and Report (20 Marks)	I 9.07 II 8.13
Roll No.	20ND1A0210	Outcomes (10 Marks)	18
Program	B.Tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	45
POs Addressed	<input checked="" type="checkbox"/> PO1 <input checked="" type="checkbox"/> PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PO13 <input type="checkbox"/> PO14		

*[Signature]*  
Signature of Course Facilitator with Date 22/5/23

*[Signature]*  
Signature of HoD with Date 22/5/23



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning pspace, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

① pspace is a powerful software tool used for electronic circuit design and analysis.

② By learning pspace, I can gain a deep understanding of circuit theory, including concepts such as resistors, transistors and operational amplifiers.

③ I will learn how to create and simulate circuit designs using these components.

④ pspace is widely used in academia and the industry for educational and professional purposes. By learning pspace, it is applicable in various fields, including electrical engineering, electronic design, research and development, and product design.

D. Divitha

Student Signature with Date





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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

	Submitted by	Marks	
		I	II
Name	G. Mani deepak	Internal Assessment and Report (20 Marks)	3.2      8.4
Roll No.	20N1U1A0211	Outcomes (10 Marks)	18
Program	B.TECH	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	44
POs Addressed	<input checked="" type="checkbox"/> PO1 <input checked="" type="checkbox"/> PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PS01 <input type="checkbox"/> PS02		
Signature of Course Facilitator with Date <i>[Signature]</i> 20/12/23		Signature of HoD with Date <i>[Signature]</i>	

Roll No. : 2019U1A0211  
 Course Code : 20EE504  
 Title of the Course : P-SPICE

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓						✓	
2	I have gained theoretical & practical knowledge								
	a. I have developed my Coding skills	✓					✓		
	b. I have developed a product	✓						✓	
	c. I have developed a system or process	✓					✓		
	d. I have developed my problem solving skills	✓							✓
	e. I have developed a computer based application	✓					✓		
	f. I have developed a hardware application	✓						✓	
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandate and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓						✓	
2	He / She has gained theoretical & practical knowledge	✓					✓		
	a. The learner has developed my Coding skills	✓						✓	
	b. The learner has developed a product	✓					✓		
	c. The learner has developed a system or process	✓							✓
	d. He/She has developed his/her problem solving skills	✓						✓	
	e. He/She has developed a computer based application	✓					✓		
	f. The learner has developed a hardware application	✓							✓
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning PSPICE, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

1. PSPICE is a powerful software tool used for electronic circuit design and analysis.

2. By learning PSPICE, I can gain a deep understanding of circuit theory, including concept such as resistors, transistors and operational amplifiers.

3. I will learn how to create and simulate circuit designing using these components

4. PSPICE is widely used in academia and the industry for educational and professional purposes.

By learning PSPICE, it is applicable in various fields, including electrical engineering, electronic design, research and development and product design.

G. M. Deepak

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

	Submitted by	Marks	
		I	II
Name	Gi. Srinivas	9.33	8.27
Roll No.	20NU1A0212	18	
Program	B. Tech	8	
Status of Completion	Completed / Not Completed	45	
POs Addressed	<input checked="" type="checkbox"/> PO1 <input checked="" type="checkbox"/> PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input checked="" type="checkbox"/> PO6 <input checked="" type="checkbox"/> PO7 <input checked="" type="checkbox"/> PO8 <input checked="" type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input checked="" type="checkbox"/> PO11 <input checked="" type="checkbox"/> PO12 <input checked="" type="checkbox"/> PO13 <input checked="" type="checkbox"/> PO14		

*Pusha Rao* 22/5/23  
Signature of Course Facilitator with Date

*PA Qureshi* 22/5/23  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **DWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. PSPICE is a powerful software tool used for electronic circuit design and analysis. By learning PSPICE I can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and operational amplifiers.
2. PSpice allows you to simulate circuits and analyze their behavior before physically implementing them.
3. PSpice enables to evaluate circuit performance metrics such as voltage level, current flow, power-dissipation, frequency response and noise analysis.
4. Component selection and parameter optimization: PSpice allows us to select and test various electronic components in a virtual environment.

G. Sainika  
Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	G. Divya	Internal Assessment and Report (20 Marks)	I 8	II 8	
Roll No.	20NU1A0213	Outcomes (10 Marks)		19	
Program	B.TECH	Final Presentation (10 Marks)		7	
Status of Completion	Completed / Not Completed	Total Marks		44	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14				

*[Signature]*  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date 22/5/23





Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning PSPICE, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

1. Circuit Design and Analysis:

PSPICE is a powerful software tool used for electronic circuit design and analysis. By learning PSPICE we can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and operational amplifiers.

2. Simulation Techniques:

PSPICE allows you to simulate circuit and analyze their behaviour before physically implementing them.

3. Circuit Performance Evaluation:

PSPICE enables you to evaluate circuit performance metrics such as voltage level, current flows, power dissipation, frequency response and noise analysis.

E. Divya

Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks															
Name	J. Ashok	Internal Assessment and Report (10 Marks)		I							II						
				8.27							8.00						
Roll No.	20NU1A0215	Outcomes (10 Marks)		18													
Program	B.TECH	Final Presentation (10 Marks)		9													
Status of Completion	Completed / Not Completed	Total Marks		45													
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PO16	PO17	PO18	PO19	PO20		
Signature of Course Facilitator with Date		Signature of HoD with Date															



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS) Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning PSPICE, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

#### 1. Circuit Design and Analysis:

PSPICE is a powerful software tool used for electronic circuit design and analysis. By learning PSPICE we can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diode transistors and operational amplifier.

#### 2. Simulation Techniques:

PSPICE allows you to simulate circuits and analyze their behaviours before physically implementing them.

#### 3. Circuit performance Evaluations:

PSPICE enables you to evaluate circuit performance metrics such as voltage level, current flows, Power dissipation, frequency response and noise analysis.

J. Akhate

Student Signature with Date



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks																
Name	K. Vamsi Krishna	Internal Assessment and Report (20 Marks)	I	II														
			8.4	8.13														
Roll No.	20NUIA0216	Outcomes (20 Marks)	18															
Program	B.tech	Final Presentation (10 Marks)	9															
Status of Completion	Completed / Not Completed	Total Marks	45															
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14																
Signature of Course Facilitator with Date		Signature of HoD with Date																
Subharam 22/5/23		R. G. Venkatesh 22/5/23																



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

### 1. Circuit Design and Analysis:

Pspice is a powerful software tool used for electronic circuit design and analysis.

The pspice is you can gain a deep understanding of deep in circuit theory including concepts such as resistors, capacitors, inductor, diodes, transistors, operational amplifiers.

### 2. Simulation techniques:

Pspice allows you to simulate the circuits and analyze the behavior before physically implementing them.

Pspice provides tools for troubleshooting and debugging circuits.

You can analyze circuit behavior, identify potential issues, and optimize circuit performance.

Pspice enables you to evaluate circuit performance metrics such as voltage levels, current flows, power dissipation, frequency analysis.

*A. Vamsi Krishna*  
18/05/2023

Student Signature with Date



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# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks											
		Internal Assessment and Report (20 Marks)		I		II							
Name	K. Revathi			8.4		8.27							
Roll No.	202101A0217	Outcomes (20 Marks)		18									
Program	B.Tech	Final Presentation (10 Marks)		9									
Status of Completion	Completed / Not Completed	Total Marks		45									
POs Addressed	<input checked="" type="checkbox"/> PO1 <input type="checkbox"/> PO2 <input type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PO13 <input type="checkbox"/> PO14												
Signature of Course Facilitator with Date													
												Signature of HoD with Date	





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please

By learning ps spice, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

① ps spice is a powerfull software tool used for electronic circuit design and analysis.

② By learning ps spice, I can gain a deep understanding of circuit theory, including concept such as resistors, transistors and operational amplifiers.

③ I will learn how to create and simulate circuit designing using these components.

④ ps spice is widely used in academia and the industry for educational and professional purposes.

By learning ps spice, it is applicable in various fields, including electrical engineering, electronic design, research and development, and product design.

K. Revathi

Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 -- 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks		
Name	K. Sai Chasan	Internal Assessment and Report (10 Marks)	I 8.5	II 8.5
Roll No.	20N1U1A0218	Outcomes (10 Marks)	19	
Program	B.TECH	Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed	Total Marks	47	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14	PO15	PO16
Signature of Course Facilitator with Date <i>[Signature]</i> 22/5/23		Signature of HoD with Date <i>[Signature]</i> 22/5/23		

Roll No. : 20NU1A0218  
 Course Code : 20EE504  
 Title of the Course : P-SPICE

Learning Outcomes (Please tick appropriately based on your course) (Self-Assessment)

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	I have gained only theoretical knowledge	✓						✓	
2	I have gained theoretical & practical knowledge								
	a. I have developed my Coding skills	✓						✓	
	b. I have developed a product	✓					✓		
	c. I have developed a system or process	✓							✓
	d. I have developed my problem solving skills	✓						✓	
	e. I have developed a computer based application	✓						✓	
	f. I have developed a hardware application	✓							✓
3	Any others, please specify								

Learning Outcomes (Please tick appropriately based on the learners learning outcomes) (To be filled by faculty during one to one assessment either through online or offline or both the mode). Geotagged photos are needed and in case of online "Recording is mandatory" during assessment process. However it is suggested to facilitate the process through online mode. Five minutes short video recorded presentation submission is also mandatory and should be uploaded in LMS before the final assessment.

No.	Description	Before Learning				After Learning			
		1	2	3	4	1	2	3	4
1	The learner has gained only theoretical knowledge	✓						✓	
2	He / She has gained theoretical & practical knowledge								
	a. The learner has developed my Coding skills	✓						✓	
	b. The learner has developed a product	✓					✓		
	c. The learner has developed a system or process	✓						✓	
	d. He/She has developed his/her problem solving skills	✓							✓
	e. He/She has developed a computer based application	✓						✓	
	f. The learner has developed a hardware application	✓							✓
3	Any others, please specify								

Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please

### 1. Circuit Design and Analysis:

Pspice is a powerful software tool used for electronic circuit design and analysis. By learning Pspice you can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and operational amplifiers.

### 2. Simulation Techniques:

Pspice allows you to simulate circuits and analyze their behaviour before physically implementing them.

### 3. Circuit Performance Evaluation:

Pspice enables you to evaluate circuit performance metrics such as voltage level, current flows, Power dissipation, frequency response and noise analysis.

### 4. Component Selection and parameter Optimization:

Pspice allows us to select and test various electronic components in a virtual environment.

K. Sai

Student Signature with Date



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)



Approved by M.C.T. New Delhi & Affiliated to JNTUA, Kavayitri Ambedkar University, Rajamahendravaram  
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SONTYAM, Pondurthi - Akhara Common Highway, Visakhapatnam - 531173, Ph: 0435334107, 0300464646, www.nsrit.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks													
Name	K. Uma Maheshwar	Internal Assessment and Report (20 Marks)		I		II									
				9.33		8.67									
Roll No.	20NU1A0219	Outcomes (10 Marks)				19									
Program	B.Tech	Final Presentation (10 Marks)				9									
Status of Completion	Completed / Not Completed	Total Marks				47									
POs Addressed		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14
Signature of Course Facilitator with Date		Signature of HoD with Date													
Uma Maheshwar 22/5/23		R. Geetha 22/5/23													



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- Pspice is a powerful software tool used for electronic circuit design and analysis.
- P spice allows you to simulate circuit and analyze the behaviour before physically implementing them.
- By learning P spice you can gain a deep understanding of circuit theory, including concepts such as resistor capacitors, inductors, diode, transistors and operational Amplifiers.
- You can learn various simulation techniques such as transient analysis, AC analysis, DC sweep analysis, parameter sweeping, monte Carlo analysis.

K. Uma Maheswarar  
13/5/23  
Student Signature with Date





# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)



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SONTYAM, Pedduru (Old - Anaparthapuram Highway, Visakhapatnam - 531173, Ph: 9888221417, 9390484546, www.nsril.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
		Internal Assessment and Report (10 Marks)	I II
Name	M. Lokesh	8.53	8.47
Roll No.	20NV1A0220	Outcomes (10 Marks)	17
Program	B.Tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	44
Pos. Addressed	<input checked="" type="checkbox"/> PO1 <input checked="" type="checkbox"/> PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PO13 <input type="checkbox"/> PO14		

*M. Lokesh*  
Signature of Course Facilitator with Date

*P. Geetha*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. By learning PSpice, I can gain several valuable knowledge and skills related to circuit simulation and analysis.
2. PSpice is a powerful software tool used for electronic circuit design and analysis.
3. By learning PSpice, I can gain a deep understanding of circuit theory, including concepts such as resistors, transistors and operation of amplifiers.
4. I will learn how to create and simulate circuit designs using this components.
5. PSpice is widely used in academic and the industry for educational and professional purposes. By learning PSpice, it is applicable in various fields, including electrical engineering and development.

M. Lokesh  
Student Signature with Date



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SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 088624187, 8098484348, www.nsril.edu.in

# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks												
Name	N. Divya	Internal Assessment and Report (20 Marks)												
		I	II											
Roll No.	2021A00821	Outcomes (10 Marks)												
Program		Final Presentation (10 Marks)												
Status of Completion	Completed / Not Completed	Total Marks												
POs Addressed	<input checked="" type="checkbox"/> PO1 <input checked="" type="checkbox"/> PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input checked="" type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PO13 <input type="checkbox"/> PO14	44												
Signature of Course Facilitator with Date		Signature of HoD with Date												



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

### 1. Circuit design and analysis:

Pspice is a powerful software tool used for electronic circuit design and analysis. By learning Pspice we can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and operational amplifiers.

Pspice allows you to simulate circuits and analyze their behaviour before physically implementing them.

Pspice enables you to evaluate circuit performance metrics such as voltage level, current flow, power dissipation, frequency response and noise analysis.

### Component selection and parameter optimization:

Pspice allows us to select and test various electronic components in a virtual environment.

N. Divya

Student Signature with Date



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# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks											
		Internal Assessment											
		I						II					
Name	N. Ramesh	and Report (20 Marks)						8.53 8.47					
Roll No.	20N U1A022a	Outcomes (10 Marks)						17					
Program	B-TECH	Final Presentation (10 Marks)						8					
Status of Completion	Completed / Not Completed	Total Marks						44					
POs Addressed	<input checked="" type="checkbox"/> PO1 <input checked="" type="checkbox"/> PO2 <input checked="" type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input checked="" type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input type="checkbox"/> PO10 <input checked="" type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PSO1 <input checked="" type="checkbox"/> PSO2												
Signature of Course Facilitator with Date		Signature of HoD with Date											





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning PSPICE, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

1. PSPICE is a powerful software tool used for electronic circuit design and analysis.

2. By learning PSPICE, I can gain a deep understanding of circuit theory, including concepts such as resistors, transistors and operational amplifiers.

3. I will learn how to create and simulate circuit designs using these components.

4. PSPICE is widely used in academia and the industry for educational and professional purposes.

By learning PSPICE, it is applicable in various fields, including electrical engineering, electronic design, research and development and product design.

N. Ramesh

Student Signature with Date



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INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



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SONTYAM, Pedduru (H) - Annapuraman Highway, Visakhapatnam - 531173, Ph : 0886824187, 8008464646, www.nsril.edu.in

# Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

	Submitted by	Marks	
		I	II
Name	P. Uday Srinivas	Internal Assessment and Report (20 Marks)	8.5 8.4
Roll No.	20N01A0823	Outcomes (20 Marks)	17
Program	B. Tech	Final Presentation (10 Marks)	8.
Status of Completion	Completed / Not Completed	Total Marks	44
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

*[Signature]*  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- By learning pspice you can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and Op-Amplifier.
- You can learn various analysis, AC analysis, DC Sweep analysis, parameter sweeping, Monte Carlo analysis, these techniques help you to understand circuit performance, characteristics, limitations.
- P-spice allows you to simulate circuit and analyze their behaviour before physically implementing them.
- P spice is a powerful tool used for electronic circuit design and analysis.

P. V. S. S. S.  
13/6/23  
Student Signature with Date





Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

### 1. Circuit Design and Analysis:

PSpICE is a powerful software tool used for electronic circuit design and analysis. By learning PSpICE you can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and operational amplifiers.

### 2. Simulation Techniques:

PSpICE allows you to simulate circuits and analyze their behaviour before physically implementing them.

### 3. Circuit Performance Evaluation:

PSpICE enables you to evaluate circuit performance metrics such as voltage level, current flows, power dissipation, frequency response and noise analysis.

### 4. Component selection and parameter optimization:

PSpICE allows to select and test various components.

P. Yashu Babu

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	S. Vasanthi	Internal Assessment and Report (20 Marks)	I 9.07	II 8.73
Roll No.	20NU1A0225	Outcomes (20 Marks)	19	
Program	B-TECH	Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed	Total Marks	47	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12	PO13	PO14
Signature of Course Facilitator with Date 22/5/23		Signature of HoD with Date 22/5/23		





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS) Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning PSPICE, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

#### 1. Circuit Design and Analysis:

PSPICE is a powerful software tool used for electronic circuit design and analysis. By learning PSPICE we can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and operational amplifiers.

#### 2. Simulation Techniques:

PSPICE allows you to simulate circuits and analyze their behaviour before physically implementing them.

#### 3. Circuit Performance Evaluations:

PSPICE enables you to evaluate circuit performance metrics such as voltage level, current flows, Power dissipation, frequency response & noise analysis.

#### 4. Component selection and parameter Optimization:

Pspice allows us to select and test various electronic components in a virtual environment.

S. Vasanthi

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
Name	S. Yugandhar	Internal Assessment and Report (10 Marks)	I II 8 8
Roll No.	20NVA0806	Outcomes (10 Marks)	18
Program	B.Tech	Final Presentation (10 Marks)	8
Status of Completion	Completed / Not Completed	Total Marks	47
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14		

*S. Yugandhar*  
Signature of Course Facilitator with Date 22/5/23

*P. B. Srinivas*  
Signature of HoD with Date 22/5/23



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **OWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning Pspice, I can gain several valuable knowledge and skills related to circuit simulation and analysis.

① Circuit Design and Analysis.

Pspice is a powerful software tool used for electronic circuit design and analysis. By learning Pspice, I can gain a deep understanding of circuit theory concepts such as resistors, capacitors, inductors etc.

② Pspice provides tools for troubleshooting and debugging circuits. I can analyse circuit behaviour, identify potential issues, and optimise circuit performance.

③ Pspice can help to understand the relationship between circuit design and PCB layout, ensuring proper signal integrity and minimising noise issues during the physical implementation of the circuit, and development, and product design.

S. Yugandhar

Student Signature with Date



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SONTYARI, Pendurthi - Anaparthi Highway, Visakhapatnam - 531173, Ph: 0896024197, 0896044860, www.nsril.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks	
		I	II
Name	Y. Naga Sowmya 5866	Internal Assessment and Report (20 Marks)	8.93      9.07
Roll No.	ZONUIA0227	Outcomes (20 Marks)	19
Program	B. Tech	Final Presentation (10 Marks)	9
Status of Completion	Completed / Not Completed	Total Marks	47
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14 PO15 PO16		

*[Signature]*  
Signature of Course Facilitator with Date

*[Signature]*  
Signature of HoD with Date



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. By learning PSpice, I can gain several valuable knowledge and skills related to circuit simulation and analysis. PSpice is powerful software tool used for electronic circuit design and analysis.
2. By learning PSpice, I can gain a deep understanding of circuit theory, including concepts such as resistors, transistors, and operational amplifiers.
3. I will learn how to create and simulate circuit designs using these components.
4. PSpice is widely used in academia and the industry for educational and professional purposes. By learning PSpice, it is applicable in various fields, including electrical engineering, and development.

V. Naga Sowmya Sree

Student Signature with Date





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SONTYAM, Pandurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph: 9446824167, 9099484548, www.nsrit.ac.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks														
Name	B. psuylanka	Internal Assessment and Report (20 Marks)	I	II												
			8.93	9.07												
Roll No.	P 21NU5A0201	Outcomes (10 Marks)	19													
Program	B.Tech	Final Presentation (10 Marks)	9													
Status of Completion	Completed / Not Completed	Total Marks	47.													
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6	PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>													
 Signature of Course Facilitator with Date		 Signature of HoD with Date														



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their **DWN WORDS**). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

### 1. Circuit Design and Analysis:

PSpICE is a powerful software tool used for electronic circuit design and analysis. By learning PSpICE you can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors and operational amplifiers.

### 2. Simulation Techniques:

PSpICE allows you to simulate circuits and analyze their behaviour before physically implementing them.

### 3. Circuit Performance Evaluation:

PSpICE enable to evaluate circuit performance metrics such as voltage level, current flows, power dissipation, frequency response and noise analysis.

### 4. Component Selection and Parameter Optimization:

PSpICE allows us to select and test various electronic components in a virtual environment

B. Prityanka

Student Signature with Date



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks												
Name	B. Rakesh	Internal Assessment and Report (10 Marks)	I	II										
			9.07	9.07										
Roll No.	21NU5A0202	Outcomes (10 Marks)		18										
Program		Final Presentation (10 Marks)		8										
Status of Completion	Completed / Not Completed	Total Marks		45										
POs Addressed	<input checked="" type="checkbox"/> PO1 <input type="checkbox"/> PO2 <input type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PO13 <input type="checkbox"/> PO14													
Signature of Course Facilitator with Date		Signature of HoD with Date												
Lusha Ramesh 22/5/23		R. Q. ... 22/5/23												



Note: The range '1' through '5' is Weak to Strong

Loarners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. Circuit Design and Analysis: Pspice is a powerful software tool used for electronic circuit design and analysis.
2. Simulation techniques: Pspice allows you to simulate circuits and analyze their behavior before physically implementing them.
3. Troubleshooting and Debugging: Pspice provides tools for troubleshooting and debugging circuits.
4. Circuit performance Evaluation: Pspice enables you to evaluate circuit performance metrics such as voltage levels, current flows, power dissipation, frequency response, and noise analysis.
5. Component Selection and parameter Optimization: Pspice allows you to select and test various electronic components in a virtual environment.
6. PCB Design and layout: Pspice is often integrated with PCB design software, allowing you to create schematics, perform simulation, and generate layout files.

B. Rakesh

Student Signature with Date



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)



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## Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023**  
**(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks	
Name	D. Venkata Sai Rokesh	Internal Assessment and Report (20 Marks)	I - 8 II - 8
Roll No.	21NUSA0203	Outcomes (30 Marks)	18
Program		Final Presentation (10 Marks)	7
Status of Completion	Completed / Not Completed	Total Marks	43
POs Addressed	<input checked="" type="checkbox"/> PO1 <input type="checkbox"/> PO2 <input type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PS01 <input type="checkbox"/> PS02		
Signature of Course Facilitator with Date		Signature of HoD with Date	





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please

- 1, Circuit Design and Analysis: Pspice is a powerful software tool used for electronic circuit design and analysis.
- 2, Simulation Techniques: Pspice allows you to simulate circuits and analyze their behaviours before physically implementing them.
- 3, Troubleshooting and Debugging: Pspice provides tools for troubleshooting and debugging circuit.
- 4, Circuit performance Evaluation: Pspice enables you to evaluate circuit performance metrics such as voltage levels, current flow, power dissipation, frequency response, and noise analysis.
- 5, Component selection and parameter Optimization: Pspice allows you to select and test various electronic components in a virtual environment.

D. Raksh

Student Signature with Date



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INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



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SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph: 0886824167, 8086464618, www.nsril.edu.in

# Assessment Report Skill Oriented Course

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)**

Submitted by		Marks												
		Internal Assessment I II												
Name	D. Sindhubha	and Report (20 Marks)					8.67			253				
Roll No.	21NUSA0204	Outcomes (10 Marks)					19							
Program	B.TECH	Final Presentation (10 Marks)					9							
Status of Completion	Completed / Not Completed	Total Marks					47.							
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>												
Signature of Course Facilitator with Date		Signature of HoD with Date												



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten – fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

By learning PSpice, I can give several valuable knowledge and skills related to circuit simulation and analysis.

#### 1. Circuit design and analysis:

PSpice is a powerful software tool used for electronic circuit design and analysis. By learning PSpice we can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors.

#### 2. Simulation Techniques:

PSpice allows you to simulate circuits and analyze their behaviour before physically implementing them.

#### 3. Circuit performance Evaluation:

PSpice enables you to evaluate circuit performance metrics such as voltage level, current flows, power dissipation, frequency response and noise analysis.

D. Sindusha  
Student Signature with Date



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)



Inscribed by AICTE, New Delhi (Autonomous), ACTU, Chennai (A-1) (03/05/2014) (UPE) (03/05/2014) (UPE) (03/05/2014)  
 Accredited under 2(F) of the UGC Act 1956 as regulated by JNAAC with 'A' Grade (1.19/1.00)  
 UGC (Y-4), New Delhi - Contact Person: Dr. Jayashree, Visakhapatnam - 531173, Ph: 0895629102, 0899461516, www.nsril.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks												
Name	G. Nishank baba	Internal Assessment and Report (10 Marks)	I	II										
			9.2	9.6										
Roll No.	21NUSA0205	Outcomes (10 Marks)	18											
Program		Final Presentation (10 Marks)	9											
Status of Completion	Completed / Not Completed	Total Marks	46											
POs Addressed	<input checked="" type="checkbox"/> PO1 <input type="checkbox"/> PO2 <input type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PSO-1 <input type="checkbox"/> PSO12													
Signature of Course Facilitator with Date		Signature of HoD with Date												
G. Nishank baba 22/5/23		R. G. Srinivas 22/5/23												



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please

- 1, Circuit Design and Analysis: Pspice is a powerful software tool used for electronic circuit design and analysis.
- 2, Simulation Technique: Pspice allows you to simulate circuits and analyze their behavior before physically implementing them.
- 3, Troubleshooting and Debugging: Pspice provides tools for troubleshooting and debugging circuit.
- 4, Circuit performance Evaluation: Pspice enables you to evaluate circuit performance metrics such as voltage levels, current flows, power dissipation, frequency response, and noise analysis.
- 5, Component Selection and parameter Optimization. Pspice allows you to select and test various electronic components in a virtual environment.
- 6, PCB Design and layout: Pspice is often integrated with PCB design software, allowing you to create schematics, perform simulations, and generate layout files.

G. N. Shank

Student Signature with Date



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)



Approved by AICTE, New Delhi (Affiliated to JNTU, Visakhapatnam) (UOI No. 1501/2019, 15/11/2019) with Provisional  
Recognition under 2(f) of the MRC Act 1956 & Approved by NAAC with 'A' Grade (3/10/2020)  
SONTYAM, Peddurtchi - Anaparthi Highway, Visakhapatnam - 531173, Ph: 0895824197, 0895824500. www.nsr-it.edu.in

## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks			
Name	K.NJ. Lokesh Yamma	Internal Assessment and Report (20 Marks)	I 9.07	II 9.33	
Roll No.	21NU5A0206	Outcomes (10 Marks)		17	
Program		Final Presentation (10 Marks)		7	
Status of Completion	Completed / Not Completed	Total Marks		43	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PO13 PO14				
Signature of Course Facilitator with Date <i>Lokesh Yamma</i> 22/5/23		Signature of HoD with Date <i>P. Srinivas</i> 22/5/23			





Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

- 1, Circuit Design and Analysis Pspice is a powerful software tool used for electronic circuit design and analysis.
- 2, Simulation Techniques: Pspice allows you to simulate circuits and analyze their behavior before physically implementing them.
- 3, Troubleshooting and Debugging: Pspice provides tools for troubleshooting and debugging circuit.
- 4, Circuit performance Evaluation: Pspice enables you to evaluate circuit performance metrics such as voltage levels, current flows, frequency response, and noise analysis.
- 5, Component Selection and parameter Optimization: Pspice allows you to select and test various electronic component in a virtual environment.
- 6, PCB Design and Layout Pspice is often integrated with PCB design software allowing you to create schematics perform generates layout files.

K.N.J. Lokesh Kumar

Student Signature with Date



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## Assessment Report Skill Oriented Course

Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (B.Tech.)

Submitted by		Marks		
Name	N. Charan Kumar Reddy	Internal Assessment and Report (20 Marks)	I 9.33	II 9.47
Roll No.	21NU5A0207	Outcomes (30 Marks)	18	
Program		Final Presentation (10 Marks)	8	
Status of Completion	Completed / Not Completed	Total Marks	45	
POs Addressed	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02			
Signature of Course Facilitator with Date <i>[Signature]</i> 22/5/23		Signature of HoD with Date <i>[Signature]</i> 22/5/23		



Note: The range '1' through '5' is Weak to Strong

Learners Descriptive Learning Outcomes (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

1. Circuit Design and Analysis Pspice is a powerful software tool used for electronic circuit design and analysis. By learning Spice, you can gain a deep understanding of circuit theory, including concepts such as resistors, capacitors, inductors, diodes, transistors, and operational amplifiers.
2. Simulation Techniques: Pspice allows you to simulate circuits and analyze their behavior before physically implementing them.
3. Troubleshooting and Debugging: Pspice provides tools for troubleshooting and debugging circuits. You can analyze circuit behavior, identify potential issues, and optimize circuit performance.
4. Circuit Performance Evaluation: Pspice enables you to evaluate circuit performance metrics such as voltage levels, current flows, power dissipation, frequency response, and noise analysis.
5. Components Selection and Parameter Optimization: Pspice allows you to select and test various electronic components in a virtual environment.
6. PCB Design and Layout Pspice is offer integrated with PCB design software allowing you to create simulations, and generate layout files.



Student Signature with Date



**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



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Sontyam, Visakhapatnam - Andhra Pradesh (India), Visakhapatnam - 531173, Tel: 0885824102, 0885824103, www.nsr.it.ac.in

**Assessment Report  
Skill Oriented Course**

**Academic Year 2022 – 2023  
(Semester VI) (Academic Regulation 2020) (E.Tech.)**

Submitted by		Marks		
Name	P. S.V. Teja	Internal Assessment and Report (20 Marks)	I 9.07	II 8.93
Roll No.	21NU5A0208	Outcomes (10 Marks)	19	
Program		Final Presentation (10 Marks)	9	
Status of Completion	Completed / Not Completed	Total Marks	47	
POs Addressed	<input checked="" type="checkbox"/> PO1 <input type="checkbox"/> PO2 <input type="checkbox"/> PO3 <input checked="" type="checkbox"/> PO4 <input checked="" type="checkbox"/> PO5 <input type="checkbox"/> PO6 <input type="checkbox"/> PO7 <input type="checkbox"/> PO8 <input type="checkbox"/> PO9 <input checked="" type="checkbox"/> PO10 <input type="checkbox"/> PO11 <input type="checkbox"/> PO12 <input checked="" type="checkbox"/> PSO1 <input type="checkbox"/> PSO12			
Signature of Course Facilitator with Date		Signature of HoD with Date		
Kusha Rany 22/5/23		P. S. Venkatesh 22/5/23		



Note: The range '1' through '5' is Weak to Strong

**Learners Descriptive Learning Outcomes** (Learners are expected to write ten - fifteen solid learning outcomes regarding the skills, knowledge or any sort of product development gained through this course in their OWN WORDS). Please attach additional sheets in case of any sample programs or product development. In case of product development, it should be submitted to the respective course instructor, please.

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- 2, Simulation Techniques : Pspice allows you to simulate circuits and analyze their behaviour before physically implementing them.
- 3, Troubleshooting and Debugging : Pspice provides tools for troubleshooting & debugging circuit.
- 4, Circuit performance Evaluation : Pspice enables you to evaluate circuit performance metrics such as voltage levels, current flows, frequency response and noise analysis
- 5, Component Selection and parameter Optimization : Pspice allows you to select and test various electronic component in a virtual environment
- 6, PCB Design and Layout Pspice is offer integrated with PCB design software allowing you to create schematic perform generates layout files.

P.S.V. Teja

Student Signature with Date



Report on the "World Entrepreneurs  
day celebrations"

Topic: "Leveraging Significant areas of Leadership in Entrepreneurism for Engineering Graduates"

Purpose: To resolved to provide deeper insights to Engineering Graduates for Successful Startup or Entrepreneurship.

Conducted by: ENTERPRENUERSHIP DEVELOPMENT CELL, Office of Student Affairs

Submitted by: Mr.T.Narayana Rao, EDC Coordinator

Date and time: August. 21, 2022 Time: 9:45 a.m.– 11:30 p.m.

Participants: 100 members attended

Attendance Screen Shots:

LIVE WEBINAR

**NSRIT**  
AUTONOMOUS

**WORLD**  
ENTREPRENEURS DAY

**DHARNENDRAN**  
MD. FASHDOT MARKETING, TN

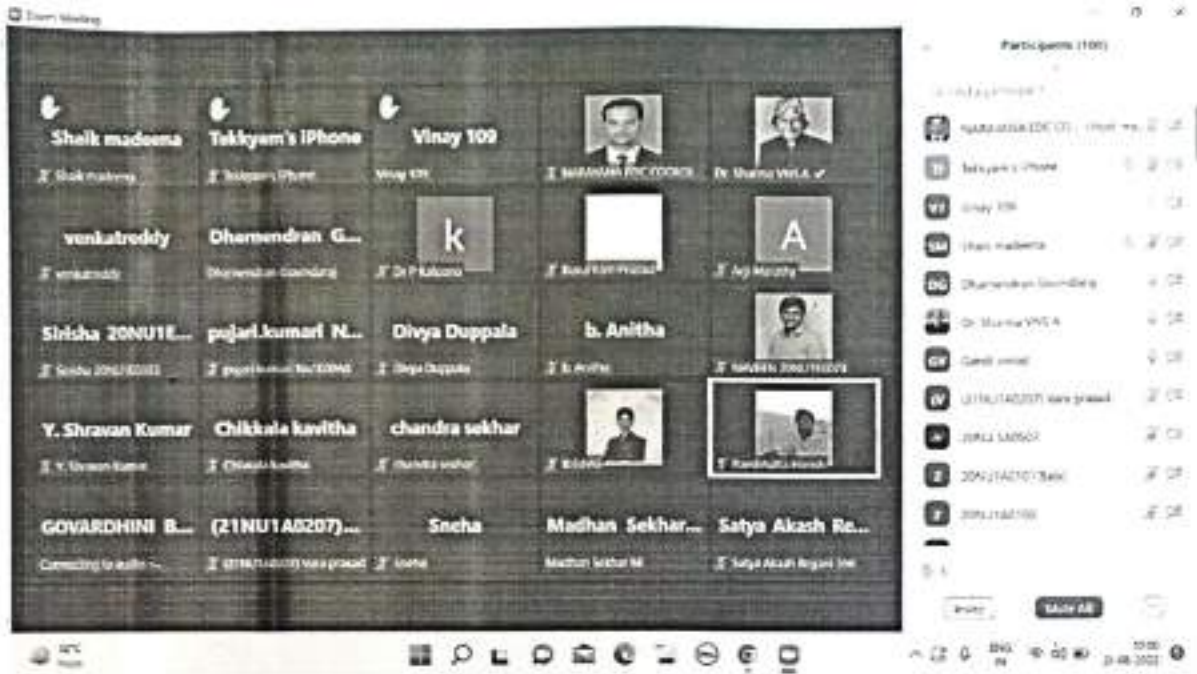
**DURGA PRASAD**  
SOUTHERN UNIV. AUSTRALIA

**VENKATA REDDY**  
CEO, VIHAAN ELECTRIX, AP

**AUGUST 21, 2022 (SUNDAY), 10:00 AM - 11:30 AM**

**JOIN US**

WWW.NSRIT.EDU.IN | ENTREPRENEURSHIP DEVELOPMENT CELL  
OFFICE OF STUDENT AFFAIRS



Zoom Meeting

SHANMUGA EDC COLLEGE OF ENGINEERING & TECHNOLOGY

HOD MBA

Dr. Durga Prasad

Dhanendran G...

SRIT AUTONOMOUS

Leveraging Significant Area's of Leadership in Entrepreneurism for Engineering Graduates

Dr. R. Durga Prasad  
Senior Lecturer  
Southern Cross University, Australia

MTC Free

21-08-2022

Zoom Meeting

SHANMUGA EDC COLLEGE OF ENGINEERING & TECHNOLOGY

HOD MBA

Dr. Durga Prasad

Rajkumar G...  
Dhanendran G...  
Dr. R. Durga Prasad

Recording

Firstly, I'm very glad to be a part of this kind of program.

MTC Free

21-08-2022

Zoom Meeting

SHANMUGA EDC COLLEGE OF ENGINEERING & TECHNOLOGY

HOD MBA

Dr. Durga Prasad

Rajkumar G...  
Dhanendran G...  
Dr. R. Durga Prasad

Recording

So when I say like problem solver, it is very simple economic taking to the core of an entrepreneurship. So this is entrepreneurship at a job

MTC Free

21-08-2022

The session theme was marked as 'Leveraging Significant areas of Leadership in Entrepreneurism for Engineering Graduates'. Its scope has been widened because normal concept relates economy but NSRIT Entrepreneurship Cell after discussing resolved to provide deeper insights to Engineering Graduates for Successful Startup or Entrepreneurship.

Entrepreneurship Cell after detailed review invited three prominent successful Entrepreneurs and provided them outcome base session than a normal Theoretical concept base session.

The session was started at 9:45 AM, by Welcoming speech by Dean Student Affairs, Dr sharma AVNS, sir explained the students about session and assured students about outcome insights. HOD MBA, Professor Dr.V.Bala introduced Dignitaries by narrating successful profiles.

**Mr. DHARNENDRAN GOVINDARAJ**, MD-Fashion Marketing, Tirupur, Tamilnadu.

**Dr.R. DURGA PRASAD**, Senior Lecturer in the School of Business and Management Southern Cross University, Australia.

**Mr. VENKAT REDDY**, CEO, Vihaan Electrix,AP.

**Mr. DHARENDAN** started by welcoming all, Sir explained the term Ideation and clearly explained that success is about failures , failure patterns gives success ways, initial period is highly occupied by negative phase after on continuously works towards sustainable success one can step in effort of success. Intrapreneurs are most desired human resources for Entrepreneurs Team to achieve high rate of success. He added Risk is a negative factor at first level, who works hard will be pushed by Risk factor to Returns factor.

**Dr.R.DURGA PRASAD**, Associate Professor explaining in detail that engineering graduates are most successful people in today's world of Startup success rate and diffusion of technologies. From zomato to google all are engineering graduates, this is a strong motivational force for engineering graduates to aspire.

Sir further quoted **Inspire to aspire before expire**. Further he quoted multi dimension approach is an assist for engineering graduates because they already gained experience during College Tech fests.

**Mr. VENKAT REDDY** presented the vivid explanation of Diagram how best the Anatomy is helpful to identify the worth of idea, He emphasized that capital has many forms but the worthiness matters to attract funds. Angel investors observe the functioning and future road map of the start up and does the path being followed is sure of success factor or not. Idea should be analyzed not only on how best it is.

1. Ideation value
2. Worthiness
3. Viability in market
4. Value Chains

The session was ended by Vote of Thanks by Dr Sharma AVNS after briefing the most valuable information derived from session.

  
Mr.T.Narayana Rao,  
EDC Cell Coordinator.

26/8/22.

## **Title: Exploring the Boundaries of Intra and Interpersonal Communication Workshop**

Date: 15/04/2023

Location: NSRIT

Organized by Basic Science and Humanities by the Department of English.

"Exploring the Boundaries of Intra and Interpersonal Communication" workshop was held from 10/04/2023 to 14/04/2023 in the seminar Hall block – I & II. This workshop aimed to provide 1<sup>st</sup> year students of CE, EEE, MECH, ECE, CSE, CSM and CSD with a deeper understanding of the complexities of communication within themselves (intrapersonal) and with others (interpersonal), to enhance B.Tech first years on various backgrounds to enhance their communication skills..

Welcome and Introduction:

The workshop began with a warm welcome and an overview of the day's agenda by the MoC Dr.M.Prasanthi and Mrs. M. Rama Chaitanya about the resource person who is an exuberant leader with good intra and interpersonal skills.

Mr Usha Sai Kiran is a doctoral scholar of Dr. A. Rama Naga Hanuman in English from Andhra University Vishakhapatnam. Besides, he is working as a guest faculty in English at the College of Engineering and the University. Kiran was awarded a gold medal for topping MA English ( Post – Graduation) at Andhra University and another gold medal for topping his bachelor's degree. Apart from his excellent track record in Literature and language since school days, he is also a creative writer and has been actively contributing as an editor for several creative and critical writings. His creative work can be found in the following blog: <https://theushakiran.wordpress.com>

Intrapersonal Communication:

In the first session, participants delved into intrapersonal communication, emphasizing self-awareness, self-talk, and emotional intelligence.

Activities included journaling, self-reflection exercises, and discussions on self-perception.

Interpersonal Communication:

The second session focused on interpersonal communication, highlighting active listening, empathy, and effective feedback.

Participants engaged in group discussions, role-play scenarios, and communication games to practice these skills.

### 8 Breakout Sessions:

Participants were divided into smaller groups to share personal experiences, challenges, and successes in both intra and interpersonal communication along with group activity. Each class was given a complete half day activity by the resource person making the workshop meaningful.

Facilitators encouraged open and honest dialogue within these groups.

### Q&A and Closing:

The workshop concluded with a Q&A session, allowing participants to seek clarifications and share their insights.

Organizer provided closing remarks and encouraged continued learning and practice.

### Key Takeaways:

Participants gained a deeper understanding of themselves and their communication styles through intrapersonal exploration.

Enhanced interpersonal communication skills, including active listening and empathy, were emphasized.

The importance of setting and respecting boundaries in communication was highlighted.

Practical tools and techniques for improving communication were shared, giving participants actionable strategies for daily life.

### Feedback:

Participants praised the workshop for its interactive and engaging format. They particularly appreciated the opportunity to practice and apply what they learned in real-life scenarios. Many participants expressed a desire for follow-up sessions or advanced workshops on the topic.

### Conclusion:

The "Exploring the Boundaries of Intra and Interpersonal Communication" workshop proved to be a valuable experience for all participants, equipping them with essential skills for effective and meaningful communication. The event was a success, and there is potential for future workshops and seminars on related topics to further enhance communication abilities and brought together participants from various backgrounds to enhance their communication skills.



Estd. 2008.

**NSRIT**

**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

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(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUGV, Vizianagaram)  
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Coordinator:

HOD:

Director Signature:



## Report on

### Hands-on training for PCB Design

**Topic:** A hands-on training on PCB Design.

**Industry:** Center of Excellence in Maritime and Shipbuilding (CEMS), Visakhapatnam.

**Year/Semester/Batch:** II/I/2020 admitted batch

**Time:** From October, 2021 to January, 2022 (Alternate Saturday)

**No. of Students Benefited:** 135

**Mode:** Offline

#### **Objective:**

To provide practical insights to the students in the area of electronics. The aim of this one credit course is to deliver practical knowledge on using EDA tools and to have a hands-on the PCB design process. PCB design is the basics things which is expected from the electronics engineers. As per the mission of the department "To create research interests in the graduates by bringing in real time engineering challenges through industry collaborations", Department of the ECE NSRIT have establish MoU from 2019-2020 academic year (perpetual) with Center of Excellence in Maritime and Shipbuilding (CEMS), Visakhapatnam to promote institute-industry interaction. In continuation of the MoU, around 135 students were sent there to have practical experience in PCB designing and this training program is included in the curriculum as a one credit course. Practical knowledge is greatly required along with the theoretical concepts to become comfortable in any filed. Therefore, the main purpose of this training course is to develop practical skills among students in the field of PCB design by promoting institute-industry interaction.

**About CEMS:**

CEMS a skill development initiative undertaken by Ministry of Shipping along with Siemens Industry Software India Pvt Ltd & Indian Register of Shipping in line with Prime Minister's initiative of Skill India. The project aims to impart Industry 4.0 relevant training in latest software & hardware tools and technology used in the engineering industry. A one stop comprehensive training Centre for imparting high-end training in latest software & hardware technology aiming to transcend designing & manufacturing processes to Industrial 4.0 / Digital 4.0 levels, to enhance productivity and optimize production costs. Strategically located at Mumbai & Vishakhapatnam, creating competencies with 18 states of the art labs, covering all possible aspects of manufacturing.

**About Printed Circuit Board (PCB):**

A Printed Circuit Board is mainly facilitating electrical connections by providing conductive pathways to connect different electronic component and gives physical support to those components. These conductive pathways are realized by using copper sheets which further laminated onto a non-conductive substrate. Nowadays the printed circuit board becomes denser to accommodate large number of components on a given area. Therefore, role of EDA tools has been a decisive factor in the success of a PCB board. The development of the PCBs becomes fully automated in the contemporary time which was not possible previously when the density of the components on PCB was less. To meet large consumption to meet industrial growth PCBs are on boom and necessitates a huge number of carrier opportunities in this field.

**Summary of the Hands-on training:**

The training program consists of the theoretical knowledge and the practical knowledge in parallel to give students a zest of the actual industry ambience. The students are sent to the CEMS on alternate Saturday for the whole semester.

The training starts by giving students basic knowledge of the electronics components from the industry perspective with details of the make of the product, data sheets details and all do's don'ts while using these electronics components. After that history of the development of the PCB was given and starting from the first development of PCB in 1930s to the till date. The complete development with time was discussed with the students. The introduction of the PCB was discussed along with a discussion that why PCB is required. The various types of the PCBs, like Single-Sided PCBs Double, Sided PCBs, Multilayer PCBs, Rigid PCBs, Flex PCBs and Rigid-Flex PCBs were discussed and physically shown to the students with full technical details.

The primary flow of the PCB design starts from the circuit design entry by using Electronic Design Automation (EDA) tools. Students were introduced to the various commercially available EDA tools in the market like Eagle, KICAD, Pulsonix, Multisim, ORCAD and Altium. The basics steps of circuit design steps were learned by the students through hands-on experience. After schematic design students learned, how to convert that schematic to layout by following design rules. After the generation of Gerber files of the design and now finally the complete fabrication process flow of the PCB was discussed. The students have learned the designing of the PCB by themselves.

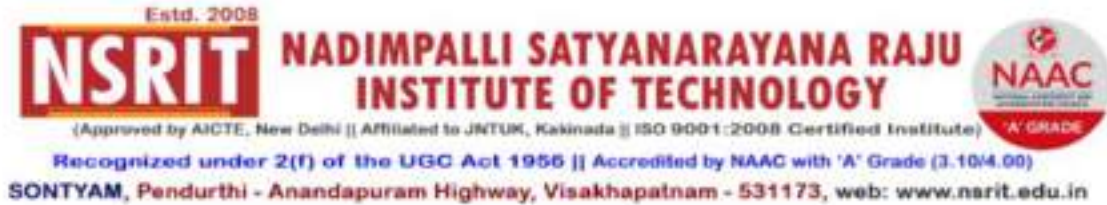
**Conclusion:**

Thus, it was a great practical learning experience for the students which will motivate students to undergone these types of course in the upcoming semester also and hopefully they will use this knowledge in their professional and carrier accomplishments.

**Course Content:**

<b>Sr. No.</b>	<b>Topic Name</b>	<b>Time</b>	<b>Batch Size</b>
1	Basic Electronics and Technologies	4	30
2	PCB In Various Sectors, Introduction to Analog and Digital Circuit Design	4	30
3	Identification Of Electronic Components	4	30
4	Identification Of Damage Component in PCB Board	4	30
5	Testing Of Components, Troubleshooting of Components	4	30
6	PCB Board Components Replacing	4	30
7	General Safety Precautions to Take When Working with Electronic Equipment	4	30
8	Introduction to Circuit Designing, Fundamental of circuit design.	4	30
9	Introduction to PCB Design, Printed Circuit Technologies, Types of PCBs	4	30
10	PCB Printing & Etching process, Design Transfer to the PCB and Design Rule Check	4	30
11	PCB Wizard Schematic, Rules for Track, Track Length,	4	30
12	Soldering and De-Soldering, wetting of solders, Flux and its properties, Automatic Soldering, Solder Application	4	30
13	Through-Hole Technology Overview, Surface Mount Technology Overview	4	30
14	Soldering of Surface Mount Components, placing and replacing SMD components	4	30
15	Assessment	4	30

**Prepared By:****Dr. Virender Singh (Coordinator)****Checked & Approved By:****Dr. B. Siva Prasad, HOD****ECE Department****NSRIT, Visakhapatnam.**



## Report on

### A Hand-on training on PLC & SCADA

**Topic:** A Hand-on training on PLC & SCADA

**Industry:** Center of Excellence in Maritime and Shipbuilding (CEMS), Visakhapatnam.

**Year/Semester/Batch:** II/I/2020 admitted batch

**Time:** AUGUST, 2022 to JANUARY, 2022 (Alternate Saturday)

**No. of Students Benefited:** 65

**Mode:** Offline

#### **Objective:**

To provide practical insights to the students in the area of electronics. The aim of this one credit course is to deliver practical knowledge on using PLC & SCADA. As per the mission of the department "To create research interests in the graduates by bringing in real time engineering challenges through industry collaborations", Department of the ECE NSRIT have establish MoU from 2019-2020 academic year (perpetual) with Center of Excellence in Maritime and Shipbuilding (CEMS), Visakhapatnam to promote institute-industry interaction. In continuation of the MoU, around 135 students were sent there to have practical experience in Embedded System using Arduino UNO and this training program is included in the curriculum as a one credit course. Practical knowledge is greatly required along with the theoretical concepts to become comfortable in any field. Therefore, the main purpose of this training course is to develop practical skills among students in the field of PLC & SCADA by promoting institute-industry interaction.

**About CEMS:**

CEMS a skill development initiative undertaken by Ministry of Shipping along with Siemens Industry Software India Pvt Ltd & Indian Register of Shipping in line with Prime Minister's initiative of Skill India. The project aims to impart Industry 4.0 relevant training in latest software & hardware tools and technology used in the engineering industry. A one stop comprehensive training Centre for imparting high-end training in latest software & hardware technology aiming to transcend designing & manufacturing processes to Industrial 4.0 / Digital 4.0 levels, to enhance productivity and optimize production costs. Strategically located at Mumbai & Vishakhapatnam, creating competencies with 18 states of the art labs, covering all possible aspects of manufacturing.

**About PLC & SCADA:**

**PLC:** When you are trying to figure out what is a PLC, you should know that it is a piece of hardware. PLC stands for programmable logic controller. A programmable logic controller is installed to monitor sensors. In this manner, a PLC stands for data collection, receiving critical information about the flow and input within the system. To this end, the PLC will also perform basic interventions, triggering outputs when the parameters programmed into the system are met. A PLC is a versatile piece of equipment, which holds up under harsh conditions with advanced options for programming and real-time usage.

**SCADA** stands for Supervisory Control and Data Acquisition. SCADA is a monitoring software used in these industries. As software, it helps control the hardware and makes a record of the data collected from all remote locations. SCADA software is connected to computers, graphical user interfaces, sensors and networked data communications in order to provide a broad picture of the process. Within this context, management teams in these industries rely on SCADA to monitor progress and make operating corrections throughout the plant. Because SCADA is a central system, it is usually installed on a computer in a monitoring hub at a plant. In order

to provide the necessary data, SCADA works with a variety of other systems. It serves as an interface of sorts, bringing various plant data together for assessment purposes. From this information, the operator can enter changes as necessary through the SCADA interface in order to control the flow and operation of the working parts within the plant.

### **Summary of the Hands-on training:**

The training program consists of the theoretical knowledge and the practical knowledge in parallel to give students a zest of the actual industry ambience. The students are sent to the CEMS on alternate Saturday for the whole semester. The training starts by giving students basic knowledge of the PLC & SCADA from the industry perspective with details of the make of the product, data sheets details and all do's don'ts while using these systems. After that history of the development of the PLC & SCADA was given and starting from the first development PLC in 1960 to the till date. The complete development with time was discussed with the students. The introduction of the Automation was discussed along with a discussion that why Automation is required and its limitations. The structure and elements of the PLC were discussed and physically shown to the students with full technical details. After introduction to PLC the details of the SCADA which is a software were discussed and how it is important to use PLCs in a better way to solve complex tasks. Students were invited for the discussion of Automation and its limitation. After that the structure and architecture of the PLC is discussed in details followed by Ladder diagram and its programming. Next, the programming and operation of the PLC were discussed and utilization of the SCADA was discussed in details. Students were exposed to SCADA software and its architecture followed by implementing small programs. The INTOUCH software were used by the students to implement SCADA to program PLCs followed by applications.



**Conclusion:**

Thus, it was a great practical learning experience for the students which will motivate students to undergo these types of course in the upcoming semester also and hopefully they will use this knowledge in their professional and carrier accomplishments.

**Prepared By:**

**Dr. Virender Singh (Coordinator)**

**Checked & Approved By:**

**Dr. B. Siva Prasad, HOD**

**ECE Department**

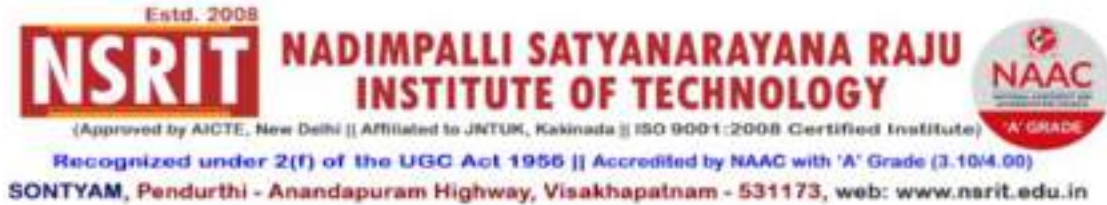
**NSRIT, Visakhapatnam.**

## Course Content:

Sr. No.	Topic Name	Time	Batch Size
1	Introduction to Automation	4	30
2	Advantages and Disadvantages of Automation	4	30
3	Limitation of automation	4	30
4	PLC	4	30
5	Architecture of PLC	4	30
6	Ladder Diagram	4	30
7	Programming by Ladder Diagram	4	30
8	SCADA	4	30
9	SCADA Software and Architecture	4	30
10	INTOUCH SCADA Softwaree	4	30
11	Applications of SCADA	4	30
12	Programing and Operation in PLC	4	30
13	Programing and Operation in PLC	4	30
14	Implementaitons of the small projecst using PLC & SCADA	4	30
15	Assessment	4	30

## CEMS Training at a Glance





## Report on

### Hands-on training on Embedded system using Embedded 'C'

**Topic:** Hands-on training on Embedded system using Embedded 'C'.

**Industry:** Center of Excellence in Maritime and Shipbuilding (CEMS), Visakhapatnam.

**Year/Semester/Batch:** II/I/2020 admitted batch

**Time:** FEB, 2022 to May, 2022 (Alternate Saturday)

**No. of Students Benefited:** 135

**Mode:** Offline

#### **Objective:**

To provide practical insights to the students in the area of electronics. The aim of this one credit course is to deliver practical knowledge on using EDA tools and to have a hands-on the PCB design process. PCB design is the basics things which is expected from the electronics engineers. As per the mission of the department "To create research interests in the graduates by bringing in real time engineering challenges through industry collaborations", Department of the ECE NSRIT have establish MoU from 2019-2020 academic year (perpetual) with Center of Excellence in Maritime and Shipbuilding (CEMS), Visakhapatnam to promote institute-industry interaction. In continuation of the MoU, around 135 students were sent there to have practical experience in Embedded System using Arduino UNO and this training program is included in the curriculum as a one credit course. Practical knowledge is greatly required along with the theoretical concepts to become comfortable in any filed. Therefore, the main purpose of this training course is to develop practical skills among students in the field of Embedded System by promoting institute-industry interaction.

**About CEMS:**

CEMS a skill development initiative undertaken by Ministry of Shipping along with Siemens Industry Software India Pvt Ltd & Indian Register of Shipping in line with Prime Minister's initiative of Skill India. The project aims to impart Industry 4.0 relevant training in latest software & hardware tools and technology used in the engineering industry. A one stop comprehensive training Centre for imparting high-end training in latest software & hardware technology aiming to transcend designing & manufacturing processes to Industrial 4.0 / Digital 4.0 levels, to enhance productivity and optimize production costs. Strategically located at Mumbai & Vishakhapatnam, creating competencies with 18 states of the art labs, covering all possible aspects of manufacturing.

**About Embedded System:**

An embedded system is a combination of computer hardware and software designed for a specific function. Embedded systems may also function within a larger system. The systems can be programmable or have a fixed functionality. Industrial machines, consumer electronics, agricultural and processing industry devices, automobiles, medical equipment, cameras, digital watches, household appliances, airplanes, vending machines and toys, as well as mobile devices, are possible locations for an embedded system.

Examples of embedded systems

Embedded systems are used in a wide range of technologies across an array of industries. Some examples include:

**Automobiles:** Modern cars commonly consist of many computers (sometimes as many as 100), or embedded systems, designed to perform different tasks within the vehicle. Some of these systems perform basic utility functions and others provide entertainment or user-facing functions. Some embedded systems in consumer vehicles include cruise control, backup sensors, suspension control, navigation systems and airbag systems.

**Mobile phones:** These consist of many embedded systems, including GUI software and hardware, operating systems (OSes), cameras, microphones, and USB (Universal Serial Bus) I/O (input/output) modules.

Industrial machines. They can contain embedded systems, like sensors, and can be embedded systems themselves. Industrial machines often have embedded automation systems that perform specific monitoring and control functions.

**Medical equipment:** These may contain embedded systems like sensors and control mechanisms. Medical equipment, such as industrial machines, also must be very user-friendly so that human health isn't jeopardized by preventable machine mistakes. This means they'll often include a more complex OS and GUI designed for an appropriate UI.

#### **Summary of the Hands-on training:**

The training program consists of the theoretical knowledge and the practical knowledge in parallel to give students a zest of the actual industry ambience. The students are sent to the CEMS on alternate Saturday for the whole semester. The training starts by giving students basic knowledge of the Embedded System and Arduino UNO from the industry perspective with details of the make of the product, data sheets details and all do's don'ts while using these electronics components. After that history of the development of the Embedded System Development was given and starting from the first development of Embedded product Apollo Guidance Computer in 1965 to the till date. The complete development with time was discussed with the students. The introduction of the characteristics of the Embedded System was discussed along with a discussion that why Embedded System popular and how it solving the real-life applications. The structure and elements of the Embedded System were discussed and physically shown to the students with full technical details. After introduction to Embedded System, Arduino UNO different types of sensors like temperature sensor, humidity sensor, proximity sensor etc. were discussed. The various types of applications by integrating Sensors with Arduino UNO as an

Embedded product were discussed by focusing on the commercial products. The Arduino IDE installation and students were exposed to basics of Embedded programming using Embedded 'C' and a hands-on were conducted to make small basics programs like blinking of the LEDs. Next, interfacing of the different types of sensors was executed with Arduino UNO and an example of making smart water tank using Arduino was performed. At the end of the course students were asked to prepare two mini and major projects. Mini project 'Traffic Light System' and the final project 'Bluetooth controlled car' were prepared by the students followed by the assessment by the coordinator.

**Conclusion:**

Thus, it was a great practical learning experience for the students which will motivate students to undergone these types of course in the upcoming semester also and hopefully they will use this knowledge in their professional and carrier accomplishments.

**Prepared By:**

**Dr. Virender Singh (Coordinator)**

**Checked & Approved By:**

**Dr. B. Siva Prasad, HOD**

**ECE Department**

**NSRIT, Visakhapatnam.**

**Course Content:**

<b>Sr. No.</b>	<b>Topic Name</b>	<b>Time</b>	<b>Batch Size</b>
1	Introduction to Embedded System	4	30
2	Characteristics of Embedded System	4	30
3	Elements of Embedded System	4	30
4	Structure of Embedded System with Example	4	30
5	Introduction to Arduino UNO and different types of Microcontroller board	4	30
6	Different Components of Arduino and Introduction to Sensors	4	30
7	Different types of Sensors	4	30
8	Real life applications of Embedded System	4	30
9	Introduction to Arduino IDE and Installation	4	30
10	Introduction to Embedded 'C' and basics programs	4	30
11	Interfacing of Various Sensors	4	30
12	Smart water tank using Arduino	4	30
13	Mini Project: Traffic Light System	4	30
14	Final project Bluetooth Controlled Car	4	30
15	Assessment	4	30

# IoT WORKSHOP

3 Days Workshop on  
IoT with Arduino

12th, 13th & 14th September, 2022



## Report on

### **“A three day IoT workshop with Arduino”**

#### **About Workshop:**

The Department of Electronics and Communication, NSRIT Visakhapatnam has prearranged a three day workshop on “IoT with Arduino” from Sep 12, 2022 to Sep 14, 2022. This workshop was in association with IETE and Teck Team Solutions, Visakhapatnam. The experts from Teck Team Solutions provided the complete insights of the IoT with practical hands on experience to the participants. The Department has constantly whispered in practical hands on experience along with the analytical approach.





The Department of ECE is continuously dedicated to impart technical knowledge with special emphasis to develop employability skills set among the students. To accomplish the bridging gap between academic world and industry sector and to meet up our promises, the department has designed programs such as FDPs, Workshops, Webinars and distant hand on sessions in partnership with Industries. Based on the current market thrust, IoT is recognized as an emerging area and department has pulled its resources for a three day workshop in association with leading firm Teck Team Solutions.

### **About IoT:**

IoT is enjoying both the status of technical and marketing term. When, it is applied to different kinds of systems, taken as marketing term. But technical expression of IoT deals with the identification of some key characteristics form the core definition. The Internet of Things (IoT), every so often referred to as the Internet of Objects, will revolutionize everything— counting ourselves. This may seem like a gallant statement. But has significant impact in the fields of technology, communication, business and humanity. It is evident that Internet is one of the main significant and prevailing creations in all human record. Now think about that Internet of Things stand for next evolution of the Internet, a gigantic dive in its capability to congregate, investigate and distribute data that can be turned into information, understanding and eventually wisdom. In this framework, Internet of Things becomes very much vital. IoT domain areas engrave across community requirements and applications. Consequently, it provides an occasion to make wider participation and further comprehensive societies of designers and consumers. Obtaining the benefits of IoT expertise will necessitate inter-disciplinary and cross-domain collaboration from the existing domains like sensor network, embedded system, the CAD design; signal processing, artificial intelligence and machine learning. A number of IoT systems research endeavors possibly will mark possible solutions for underprivileged groups for instance, IoT systems to support persons having physical

disabilities. The comparatively small cost of experimental structures for IoT too makes this technology an excellent candidate for organizations with limited resources. IoT presents the possibility to help mass by providing direct support to the community and its requirements.

### **Workshop Summary:**

The resource persons from Teck Team Solutions were Mr. VENKAT REDDY (CEO), Mr. PARTHU and Mr. MALLESH. Total 104 students have participated in this workshop. Sensors, Arduino kits and connecting equipments were provided to the students. During these three days, students had an exposure to wide-ranging contents related to IoT.

The foremost headlights of the workshop are given below:

#### **Day 1:**

- Preface to IoT and its applications.
- Introduction to Embedded System and its utility.
- Disparities between Microprocessor and Microcontroller.
- Different forms of Arduino board such as Arduino Uno, Arduino Uno R3 SMD, Arduino Nano, Arduino mini (Power supply, clock speed, Digital I/O, Analog Input, PWM modulation and diverse types of interfacing.
- Steps to install ARDUINO software and pin description of Arduino.
- Interfacing and controlling various devices like LED, IR sensors with Arduino.
- Two examples have been taken as a hands-on such as LED glow, RGB.

#### **Day 2:**

- Explanations of different sensors like Gas sensor, Ultra sonic sensor, Light dependent resistor.
- Interfacing and controlling various sensors and resistors.
- Interfacing of Gas sensor (MQ2) with Arduino along with buzzer facility.
- Interfacing Light Dependent Resistor (LDR) along with LEDs with Arduino.

- Interfacing Ultra Sonic Sensor with Arduino which is used to determine distance and count of people.

### **Day 3:**

- Description of LCD and Bluetooth module with specific reference to Interfacing.
- Interfacing and controlling LCD (16\*2) with Arduino.
- Interfacing Wi-Fi Module with Arduino using Think speak open source platform.
- Interfacing Bluetooth (HC05) module with Arduino and tested using Arduino Voice Control App.
- Interfacing DHT sensor (Digital Humidity and Temperature sensor) with Arduino used for weather monitoring.

At valedictory ceremony, the participants were awarded the certificates and provided with the kit to continue their journey with IoT. Also competitive hands-on problem has been given to the students they performed very well and two groups have been identifying for extra ordinary effort. The ceremony and function came to an end with a group photo session.

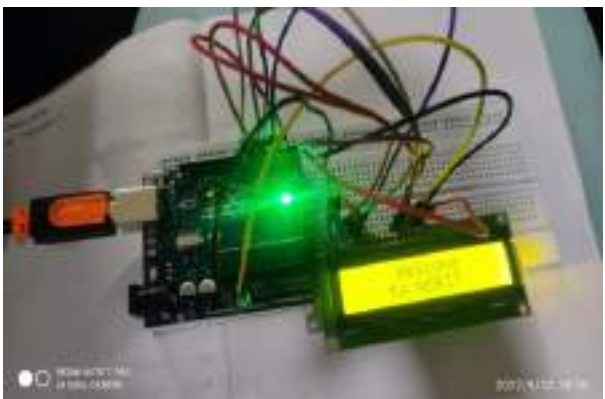
### **Skills Gained:**

- Development of employable skills to explore job opportunities in embedded system and IoT.
- Learning of the various sensors with the Arduino along with the enlargement of coding skills.
- Understanding the contributions of IoT in the field of automation and gained sensitization towards the solution of different problems associated with the humanity.

## Conclusion:

In this workshop, a fair knowledge about IoT, embedded system and various sensors is discussed along with the interfacing with Arduino. Students were encouraged to find solution for mass by facilitating direct support to community through IoT.

### Workshop Events at a Glance





**Prepared By:**  
**Dr. Virender Singh (Coordinator)**

**Checked & Approved By:**  
**Dr. B. Siva Prasad, HOD**  
**ECE Department**  
**NSRIT, Visakhapatnam.**

## Report on

### A Two-day National Level Project Expo 'TechSpardha 2023'

**Title:** TechSpardha 2023

**Category:** Project Expo cum paper presentation

**Date:** 03-03-2023 to 04-03-2023 (2 days)

**No. of Participants:** 350+

**Project Teams:** 50

**Paper presentation teams:** 15

**Poster Presentation teams:** 20

**Organizers:** Department of ECE, NSRIT

Sontyam, Visakhapatnam-531173

**Mode:** Offline

**Objective:**

The TechSpardha 2023 provided a platform to the students to showcase their projects to people from academic and engineer community. The major goal of this event to provide a juncture to the students to discuss their ideas and project work through various tracks like hardware project expo, paper and poster presentation. Students from different colleges have been participated in the event to showcase their projects and presented their technical papers in the form of computer and poster presentation. The various real life problems were addresses by students in terms of projects based on IoT, latest wireless sensors networks, medical applications and related to power transmission.



### **About TechSpardha 2023:**

The Department of Electronics and Communication, NSRIT Visakhapatnam has prearranged a two-day project expo based on the innovation ideas in the forms of hardware projects to address real life problems 'TechSpardha 2023' from March 3, 2022 to March 4, 2023 through offline mode.

This expo was in association with IETE, India. The primary objective of organizing this project expo to provide a good platform and unbridle the latent potential of the students by showcasing their projects based on the real life problems whether its related to daily routine of human being, agriculture, medical or power related problems. The prime outcome of this event was the engineering platform which was provided to share their ideas also activities like paper and poster presentation enhances the confidence among the students with genuine feedback from the domain experts.



Hardware prototypes prepared by the students were based on the real problems in the field of agricultural, medical and power areas. The prototypes were based on the IoT, embedded system, Wireless Sensor Network and web technologies. Therefore, it attracted 350+ students from different branches to attend this event. 50 projects were displayed, 15 group have participated in the paper and 20 poster presentation events. In order to motivate students, prizes of worth ₹ 20,000 were distributed to the students under different categories. Department of Electronics and Communication Engineering NSRIT Visakhapatnam always believe in providing these types of

platforms to support student's professional growth and has pulled its resources to organize this two-day event.

### **TechSpardha Summary:**

The dignitaries present in the inauguration ceremony were **Dr. N. Prasada Raju, Secretary NSRIT, Shri N. Kanak Raju, Treasurer, NSRIT** and **Dr. J. Raja Murugadoss, Director, NSRIT**. The program started with a prayer from **Ms Vaishnavi** and lamp lightening at the ECE Department. All the dignitaries and participants were welcomed by **Dr. B. Siva Prasad**, Convener and Head of the ECE Department, NSRIT gave the welcome address and shared TechSpardha dynamics to all the participants.

**Dr. J. Raja Murugadoss**, Director, NSRIT addressed the participants and welcomed the Chief Guest **Col. Prof. (Dr.) G. S. N. Raju, Vice Chancellor, Centurion University, AP**. The brief introduction of our chief guest was given by **Mrs. E. Manema, Assistant Professor**. He addressed the participants and motivated the Department of ECE for the event. Our chief guest shared some wonderful experiences with the participants related to Science and Engineering virtue. He stressed on the importance of realizing your solution in terms of hardware prototypes so that Lab-to-Land conversion can be materialised. After that participants were addressed by **Dr. N. Prasada Raju, Secretary NSRIT Visakhapatnam**. He gave a motivational speech to the participants and stressed on the importance of interdisciplinary approach to address engineering problems. The inaugural program was attended by the 180 participants from various colleges. The vote of thanks was given by **Mr. Y. Sravana Kumar, Assistant Professor**, he thanked the chief guest for accepting our invitation and gracing the occasion. He also thanked NSRIT management, administration and the participants present in the event. Finally, **Dr. B. Siva Prasad, HoD, Department of ECE** official announces the TechSpardha 2023 and accompanied our dignitaries towards the project expo area.



## Inaugural function at a Glance



### **Day 1:**

The first day of the event was dedicated to the showcasing of the projects based on the hardware. All the projects were displayed in the Department of ECE systematically so that participants can visit all the sites properly. **Dr. B. Siva Prasad, HoD, Department of ECE** escorted our Chief guest and dignitaries to all the projects displayed one by one. The senior faculties of the college Dr. N.V.S.S Suryanarayana, Dr. R.S.R Krishnam Naidu, Mr. V.V.S.S.R Krishanmurthy, Mrs. M.V.S. Roja Ramani, Mrs. A. Kamalapriya and Mrs. B. Usha Rani have participated in the evaluation process of all the displayed projects.

### **Day 2:**

The second day of the event was dedicated to the paper and poster presentation. In the first session all the participants have presented a total of 15 papers in front of the evaluators **Dr. K. Ravi Kumar, Professor ECE Department, Dr. Virender Singh, Assistant Professor, ECE Department** ECE seminar hall. The second session on day 2 was dedicated to the poster presentation. More than 20 papers were showcased in the department premises. Mr.B.Ravichandra, Assistant Professor and Mr. K. Rajasekhar, Assistant Professor were the evaluators of the poster presentation. At the end of the day valedictory ceremony was organized in the ECE seminar hall.

### **Valedictory Session:**

At the end on day 2, valedictory session was organized. The special guest for this session was **Mr. Dinesh Kumar Hirawat, HMI Engineering services**. In his speech, he specially mentions the role of converting ideas into physical prototyping. In order to motivate student prizes of worth ₹20,000 were given to the students. After evaluation of prototypes-based projects, first prize of worth 5,000 was given to the first winner, ₹2,000 to the second and prize of ₹1,000 to the third winner of the hardware project expo held on day1. Next prize to the winner of paper presentation was given ₹1,000, ₹500 and ₹300 to the first, second and third winner respectively. The last category of award was poster presentation where prizes ₹1,000, ₹500 and ₹300 to the first, second and third winner respectively was given. A special prize of ₹2000 was

given to the project showcased by diploma students for the set up of the prototype beautifully.

**Dr. B. Siva Prasad, Convener & HoD ECE Department** gave the vote of thanks. He recalled each session briefly with special thanks to the Chief guest **Col. Prof. (Dr.) G. S. N. Raju, Vice Chancellor, Centurion University, AP.** He thanked **Secretary, NSRIT Dr. N. Prasada Raju, Treasurer, NSRIT Shri N.Kanak Raju and Director NSRIT Dr. J. Raja Murugadoss.** At the ends, Dr. B. Siva Prasad thanked all the ECE department for the success of this event. He also thanked to all the participants for participating in the event with great enthusiasm.

### **Conclusion:**

In this report the complete happenings of the project expo TechSpardha 2023 scheduled from march 3 to march 4, 2023 is discussed briefly. It was a great platform for the participants to share their ideas with engineering communities and was a value addition to their knowledge.

### **Prepared By:**

**Dr. Virender Singh (Coordinator)**

### **Checked & Approved By:**

**Dr. B. Siva Prasad, HOD**

**ECE Department**

**NSRIT, Visakhapatnam.**

## TechSpardha Schedule

### **Day1:**

10:00 am to 11:00 am      Inaugural Ceremony

11:00 am to 4:00 am      Hardware project expo

### **Day 2:**

10:00 am to 1:00 pm      Paper presentation

1:30 pm to 2:30 pm      Poster presentation

3:15 pm to 4:00 pm      Valedictory function

## TechSpardha 2023 at a Glance











## Webinar Report

**Title:** Technical Paper Writing

**Category:** Webinar

**Date:** 30-08-2022

**No. of Resource Persons:** 1

**No. of Participants:** 120

**Faculty:** 5

**Student:** 120

**Organizers:** Department of ECE, NSRIT, Visakhapatnam.

**Mode:** Online

**Resource Persons:**

**Dr. Luxmi Naryana Thalluri,**  
Associate Professor, Department of ECE,  
Andhra Loyola Institute of Engineering and Technology, Vijayawada, AP,  
India

Department of ECE & NSRIT IETE student's forum Visakhapatnam organized a Webinar on "Technical Paper Writing" on 30th August 2022 from 11:00 am to 12:00 pm in ECE seminar hall. The resource person for the webinar was Dr. Luxmi Naryana Thalluri, Associate Professor, Department of ECE, Andhra Loyola Institute of Engineering and Technology, Vijayawada, AP, India. The webinar was attended by 120 students and 5 faculty members. The speaker was heartily welcomed by Dr. K. Ravi Kumar, Professor, NSRIT. Dr. Siva Prasad, HOD ECE Department, NSRIT thanks the speaker and motivated the organizers for this event. He further stressed on the



technical writing for students so that whatever research or experiment they conduct, should be able to report in terms of technical paper. He said that the purpose of a technical paper writing is to completely and clearly describe technical work, why it was done, results obtained and implications of those results. The technical report serves as a means of communicating the work to others and possibly providing useful information about that work at some later date.

The speaker Dr. Luxmi Naryana Thalluri discussed the basics components of the technical paper writing. He discussed in details about abstract writing along with the components of the introduction of the topic. In the next part he discussed the immense requirement of literature survey, which is one of the most important portions of the technical paper. Any researcher or scientist only can progress in any topic, if he or she have the proper knowledge in that domain with up-to-date literature. Next, he discussed about the methodology component. At the end he discussed the result and conclusion component along with the importance of the references.

At the end he addressed the various queries and doubts to students. The vote of thanks was given by Mr. K. Rajasekhar, Assistant Professor, NSRIT to Dr. Luxmi Naryana Thalluri giving the valuable time.

As per the feedback received from the participants it was a very good learning experience, the lecture helped them in understanding the basics of Technical Paper Writing.

## Webinar Flyer



**Prepared By:**  
**Dr. Virender Singh (Coordinator)**

**Checked & Approved By:**  
**Dr. B. Siva Prasad, HOD**  
**ECE Department**  
**NSRIT, Visakhapatnam.**