



132-ECE-FIG NO.2
ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES: TIRUPATI
(AUTONOMOUS)

Venkatapuram(V), Karakambadi Road, Renigunta(M), Tirupati-517520, Chittoor (A.P)

Department of Electronics and Communication Engineering
e-mail: aйтstpt.ece@gmail.com

website: aits-tpt.edu.in/ece.php

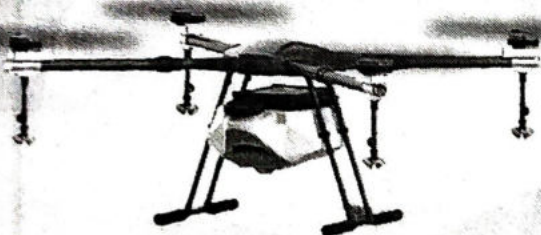


A Report on A One Week Workshop on

Design & Hovering of An Unmanned Aerial Vehicle (DRONE TECHNOLOGY)

Organized by the

Department of Electronics & Communication Engineering



ANNAMACHARYA
INSTITUTE OF TECHNOLOGY AND SCIENCES :: TIRUPATI
(AUTONOMOUS)

Hearty Welcome
to
THE RESOURCE PERSONS
GREEN TECH AVIATION ACADEMY, Coimbatore
For
A ONE WEEK WORKSHOP
ON
DESIGN AND HOVERING OF
AN
UNMANNED AERIAL VEHICLE
(DRONE TECHNOLOGY)
((31/10/2022 to 05/11/2022))

Organized by
THE DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
HoD - ECE
Dr N. PUSHPALATHA
Principal
Dr C. NADHAMUNIREDDY

Annamacharya Institute of Technology & Sciences-Tirupati, has organized a one week workshop on **Design & Hovering of An Unmanned Aerial Vehicle** from 31st Oct to 5th Nov 2022 to its students of the department in Electronics & Communication Engineering. The Workshop Resource persons are **Sourcing officer Mr. P.Nehru** and **Chief Instructor Mr.Karthikeyan** and their associating team members from Green Tech Aviation Academy, Coimbatore.

Workshop Outcomes:

- Participants will learn basics of Drone design, Assembling and flying
- Applications of Drone Technology
- RC Flight simulator software for Drone Flying Training
- Intro to autonomous flight system for drones
- R&D projects in UAV Technology

Schedule

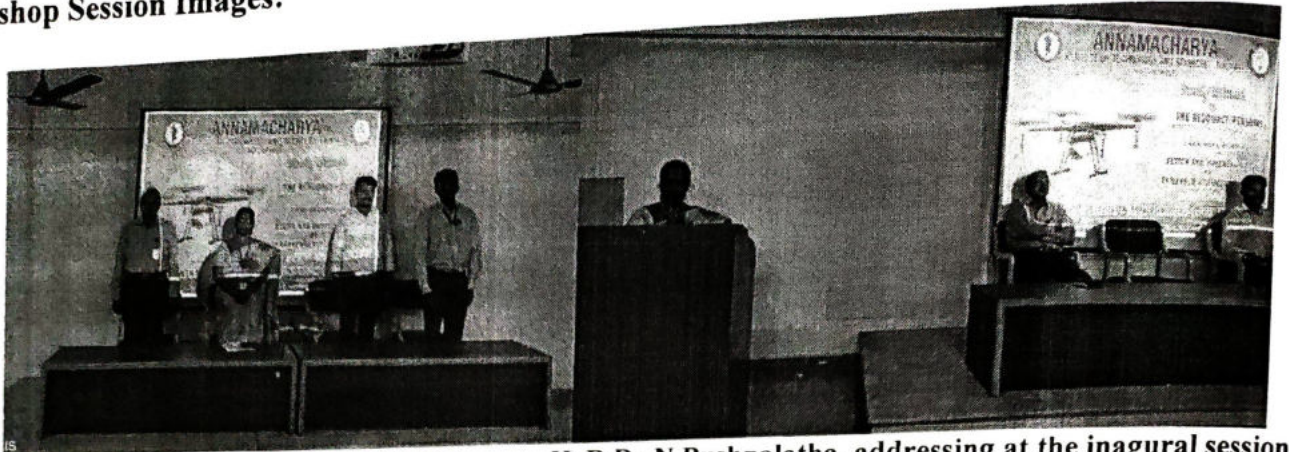
Day	Time	Content	Faculty & IV B.Tech ECE Students
Monday	9:30AM to 10:00AM	Workshop Inauguration	
	Session - 1 10.00 AM to 01.00 PM	Intro to Drone Technology, Classification & Applications of Drones. UAVs in Current Scenario. Intro to Multicopters – Control flow chart – Payloads - How Quadcopter Fly - Pitch, Yaw and Roll. Components used in Drones – BLDC Motors, ESC, Flight Controller, Battery, Propeller, GPS, Accelerometer, Gyro Sensors, Transmitter and Receiver.	IV B.Tech ECE Section 1,2 & 3 Venue: E-Class Room
	Session - 2 2.00 PM to 04.30 PM	Practical Session I Frames – Quad Configurations - Assembly of Quadcopter – Components and Tools Used – Frame Assembly and Electronics Integration. Drone Flying Training – Intro to Flight Simulator - Control Sticks – Flight Maneuvers – Do's and Don'ts in Flying – Preflight Checks – Simulator Flying Practice I	IV B.Tech ECE Section 1 Venue: BG-03
Tuesday	Session - 3 9:30AM to 1.00 PM	Intro to Flight Controllers – Sensors used in Quadcopter – Gyroscope – Accelerometer – IMU - Thermal & Humidity Sensor – GPS. Battery – Charging & Discharging – Battery rating – Safety Precautions. Commercial Applications of Drones – Career and Entrepreneurial Opportunities. Simulator Flying Practice II	IV B.Tech ECE Section 1 Venue: BG-03
	Session - 4 2.00 PM to 04.30 PM	Practical Session II – Calibrations – Intro to Mission Planner Software – Intro to Autonomous Flight Systems – Test Flying – Simulator and Live Flying Training. DGCA Regulations for Drones – Safety Precautions and Maintenance.	IV B.Tech ECE Section 1 Venue: BG-03
Wednesday	Session - 2 9.30 AM to 01.00 PM & 2:00PM to 04:30PM	Practical Session I Frames – Quad Configurations - Assembly of Quadcopter – Components and Tools Used – Frame Assembly and Electronics Integration. Drone Flying Training – Intro to Flight Simulator - Control Sticks – Flight Maneuvers – Do's and Don'ts in Flying – Preflight Checks – Simulator Flying Practice I	IV B.Tech ECE Section 2 Venue: BG-03
Thursday	Session - 3 9:30AM to 1.00 PM	Intro to Flight Controllers – Sensors used in Quadcopter – Gyroscope – Accelerometer – IMU - Thermal & Humidity Sensor – GPS. Battery – Charging & Discharging – Battery rating – Safety Precautions. Commercial Applications of Drones – Career and Entrepreneurial Opportunities. Simulator Flying Practice II	IV B.Tech ECE Section 2 Venue: BG-03
	Session - 4 2.00 PM to 04.30 PM	Practical Session II – Calibrations – Intro to Mission Planner Software – Intro to Autonomous Flight Systems – Test Flying – Simulator and Live Flying Training. DGCA Regulations for Drones – Safety Precautions and Maintenance.	IV B.Tech ECE Section 2 Venue: BG-03

Friday	Session - 2 9.30 AM to 01.00 PM & 2:00PM to 04:30PM	Practical Session I Frames – Quad Configurations - Assembly of Quadcopter – Components and Tools Used – Frame Assembly and Electronics Integration. Drone Flying Training – Intro to Flight Simulator - Control Sticks – Flight Maneuvers – Do's and Don'ts in Flying – Preflight Checks – Simulator Flying Practice I	IV B.Tech ECE Section 3 Venue: BG-03
Saturday	Session - 3 9:30AM to 1.00 PM	Intro to Flight Controllers – Sensors used in Quadcopter – Gyroscope – Accelerometer – IMU - Thermal & Humidity Sensor – GPS. Battery – Charging & Discharging – Battery rating – Safety Precautions. Commercial Applications of Drones – Career and Entrepreneurial Opportunities. Simulator Flying Practice II	IV B.Tech ECE Section 3 Venue: BG-03
	Session - 4 2.00 PM to 04.30 PM	Practical Session II – Calibrations – Intro to Mission Planner Software – Intro to Autonomous Flight Systems – Test Flying – Simulator and Live Flying Training. DGCA Regulations for Drones – Safety Precautions and Maintenance.	IV B.Tech ECE Section 3 Venue: BG-03

Faculty In charge Schedule:

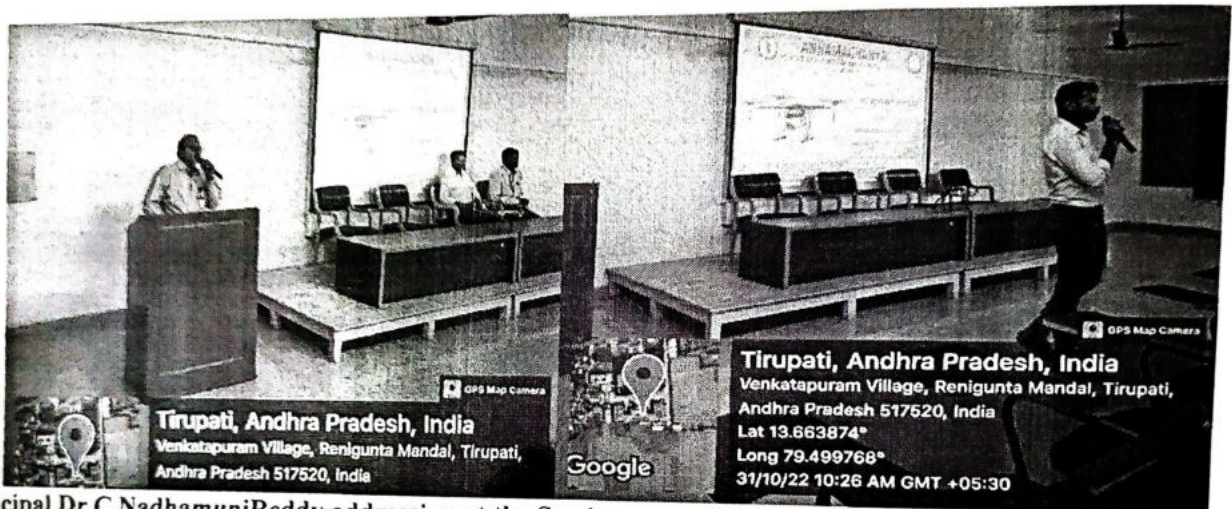
S.No	Day	Name of the Faculty	Lab Technician
1	Monday & Tuesday	Ms.K.B.Meenakumari, Ms.Anitharani, Dr.Senthamil Selvan, Mr.P.Rajesh	Ms.Hemalatha
2	Wednesday & Thursday	Ms.G.Anitharani, Mr.P.Rajesh Dr.Senthamil Selvan, Mr.P.Praveen	Ms.Vimalarani
3	Friday & Saturday	Ms.E.Devisri, Mr.P.Rajesh, Ms.K.B.Meenakumari, Ms.K.Kalyani, Dr.Senthamil Selvan, Mr.R.Nagaraj	Ms.Hemalatha
Faculty Coordinator-1		Dr.P.Harish,	Associate Professor
Faculty Coordinator-2		Mr.N.Dilipkumar	Assistant Professor

Workshop Session Images:



Inaugural Ceremony Dignitaries on the dias

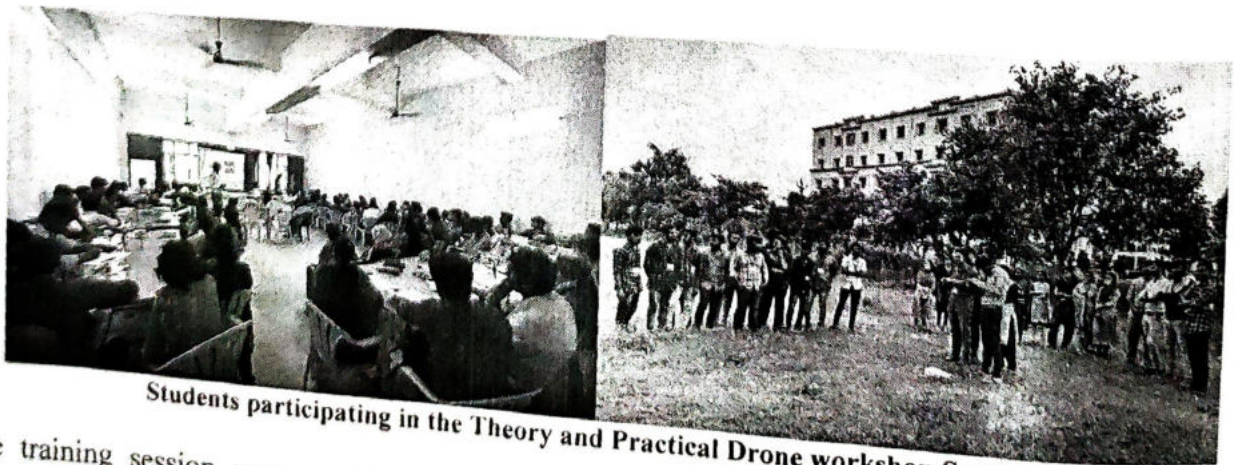
HoD Dr.N.Pushpalatha, addressing at the inagural session



Principal Dr.C.NadhamuniReddy addressing at the Session

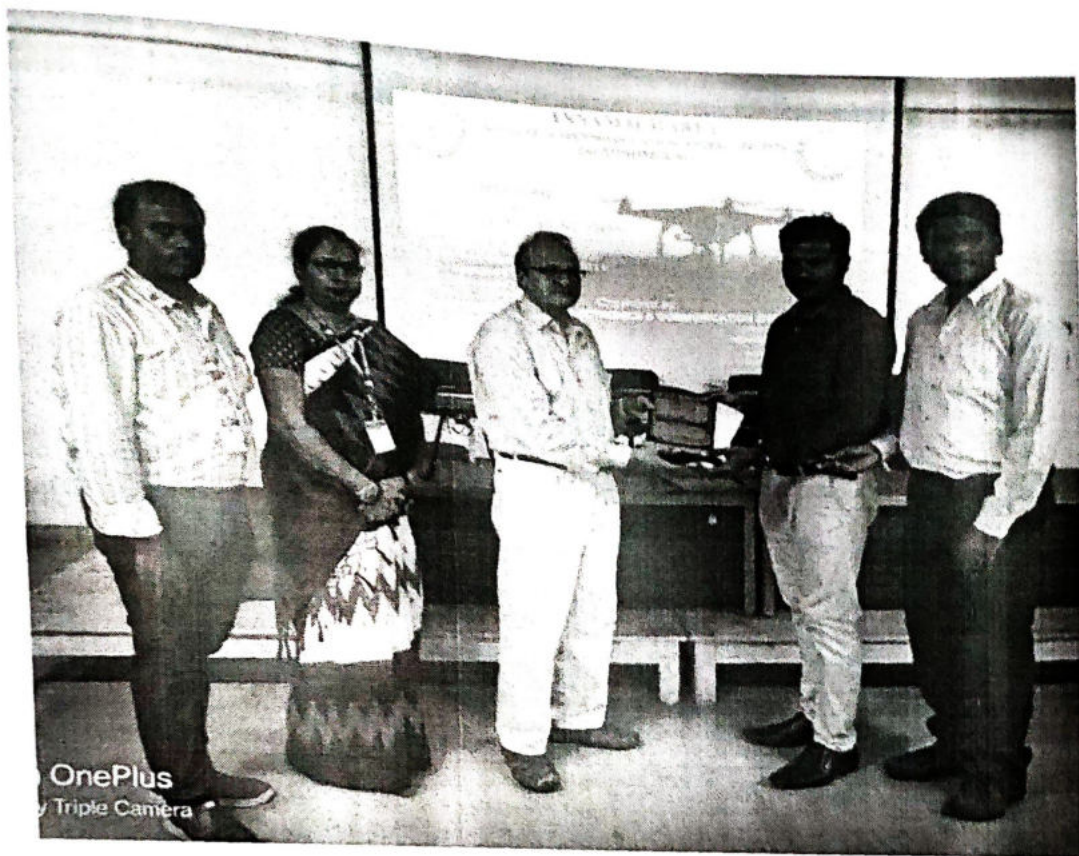
Chief Instructor P.Nehru, addressing session

At the Inaugural session of the Workshop The Principal Dr.C.Nadhamuni Reddy has addressed the students about the application, advantages and usage in the real time world and Head of the Department-Dr.N.Pushpalatha gave message students about the importance of Unmanned Aerial Vehicles in now-a-days.



Students participating in the Theory and Practical Drone workshop Sessions

The training session was participated by total students of 201 in number from Electronics & Communication Engineering department and along with them the event coordinators Dr.P.Harish, Mr.N.Dilipkumar and other faculty members also took part in the session.



At the end of the Day-6 session2, Valedictory session was conducted. The Principal Dr.C.Nadhamuni Reddy has presented a memento to the resource persons of the workshop recognizing their services of honor on behalf of the college management.

The resource persons expressed that the students have shown an active involvement during the hands on sessions and conveyed their thankfulness for providing good hospitality by the college management during the six days of the workshop.

Few students have took part in giving feedback about their practical experience throughout the six days workshop session and expressed that the training was given on the various aspects to drone technology-like components of a drone, assembling & disassembling of drone, Calibrating the drone on a computer between Flight Control system, Transmitter & Receiver and flying a drone on Altitude Hold mode, Position Hold mode and Manual mode and landing a drone and the various drone models Quad-Copter, Hexa-Copter, RC-Flight Copter, Agricultural Pesticide sprinkling drone etc.

N. Pushpalakshmi
Hod-EEED
Dept. of Electronics & Communication Engg
Annamacharya Institute of
Technology & Sciences, TIRUPATI-517 520

PRINCIPAL
ANNAMACHARYA INSTITUTE OF
TECHNOLOGY & SCIENCES
VENKATAPURAM (VII.)
RENIGUNTA (M), TIRUPATI-517 520



Annamacharya Institute of Technology and Sciences, Tirupati
Department of Electronics and Communication Engineering
SoftSkills Training Programme



A Report On

Soft Skills Training Programme

Department of ECE has conducted a One week Workshop on Soft skills to the III B.Tech students in association with Mahindra Pride Classroom & Naandi for the academic year 2021-2022 from 13/12/2021 to 18/12/2021.

Event Schedule:

S.No	Date	FN	AN	Resource person
1	13/12/2021	Employability skills & Training	Perspective Training	Mr.G.Haribabu Mr.D.Kishore Mr.R.Sai Ganesh Kumar
2	14/12/2021	Vocabulary	LSRW skills	Mr.G.Haribabu Mr.D.Kishore Mr.R.Sai Ganesh Kumar
3	15/12/2021	Special Activities	Poster Presentation	Mr.G.Haribabu Mr.D.Kishore Mr.R.Sai Ganesh Kumar
4	16/12/2021	Professional Ethics	Job Readiness	Mr.G.Haribabu Mr.D.Kishore Mr.R.Sai Ganesh Kumar
5	17/12/2021	Group Discussion tips	Debate	Mr.G.Haribabu Mr.D.Kishore Mr.R.Sai Ganesh Kumar
6	18/12/2021	Interview skills	Valedictory	Mr.G.Haribabu Mr.D.Kishore Mr.R.Sai Ganesh Kumar

Outcomes of Programme:

- Students can able to
 - Can improve communicative English

- Gain knowledge on problem solving
- Learn Time Management
- Learn the behavioral skills

Annamacharya Institute of Technology and Sciences: Tirupati, Department of ECE was conducted a one week workshop program on Soft skills. The focus of this program is students can improve English communication skills and Interview skills. Understanding the need of the students to start from basics, the training will start from introduction to concept of English grammar and go up to built personality development skills. All III B.Tech students were participated in the workshop and enhanced their knowledge in Interview skills and English proficiency.

The training is divided into:

- English Skills
- Interpersonal skills
- Interview skills
- Time Management
- Collabaration

Day 1: Employability skills and Training

Addressing by -Prof.C.NadhamuniReddy-Principal, AITS, Tirupati:

At the outset, Dr.C.NadhamuniReddy, Principal addressed the students on Importance of Critical Thinking in real life situations and how communication is most important for Job readiness.

Addressing by -Dr.N.Pushpalatha - HoD, AITS, Tirupati:

Dr.N.Pushpalatha, encouraged the students about involvement of employability skills in problematic domain.



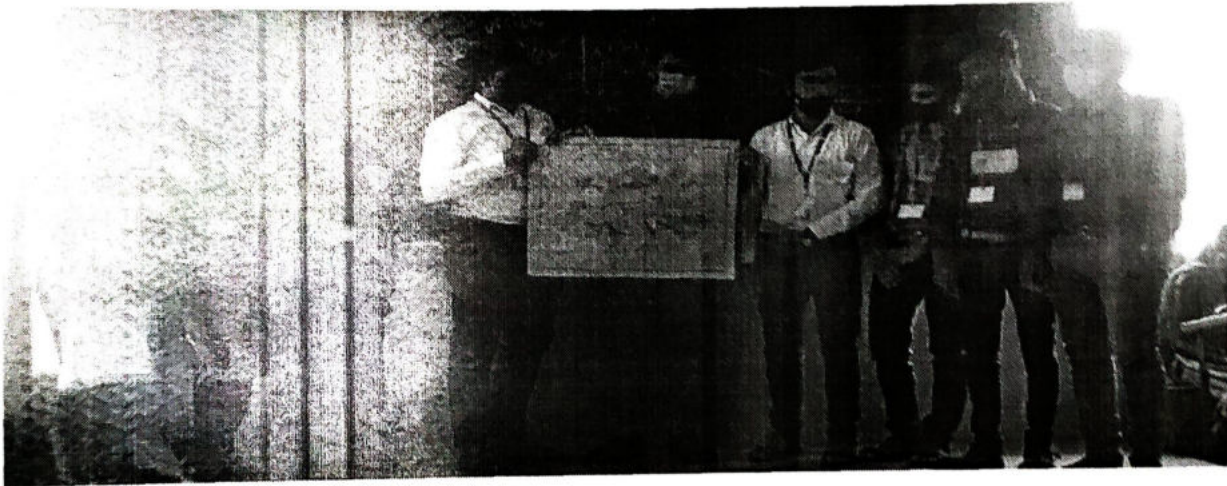
Mr.G.Haribabu, Trainer, Member of Naandi Foundation, Mahindra Pride class Room, addressed the students regarding Objectives of the workshop, Introduction to Employability skill development, followed by some activities like team work, problem solving etc. On the same day the training was continued in the AN session with some of the activities like focus and self-control, Engaged learning.

Day 2: Vocabulary & LSRW skills

Mr.R.Saiganesh, Trainer, Member of Naandi Foundation, Mahindra Pride class Room, addressed the students on Latent skills to improve the responsive ability of students. Four pillars of effective communication – Listening, Speaking, Reading and Writing in professional behaviour.

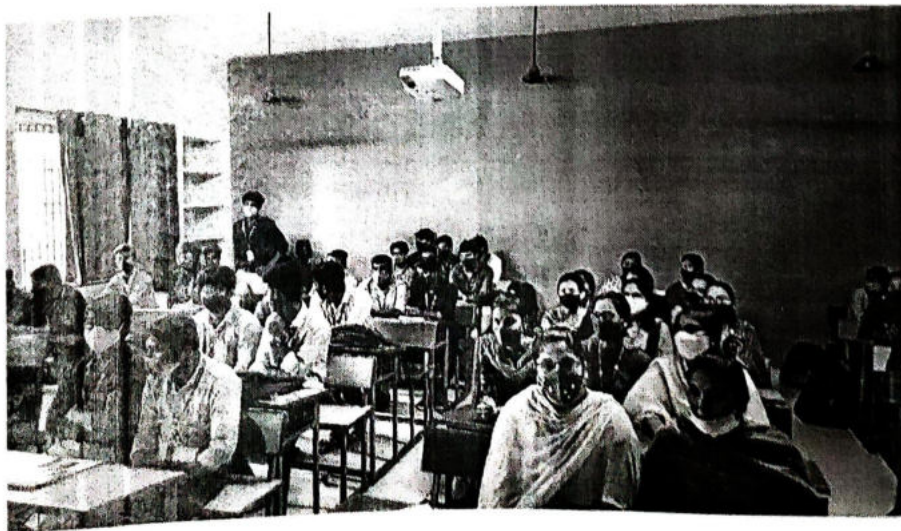
Day 3: Special Activities

Mr.D.Kishore, Trainer, Member of Naandi Foundation, Mahindra Pride class Room, trained the students with the amusement of Hypothetical situations based on the activities in a specular way.



Day 4: Professional Ethics and Job Readiness

Work Ethic/Professionalism demonstrates integrity, resilience, accountability and ethical behavior. It's the ability to take initiative, maintain effective work habits (prioritize, plan and manage work; punctuality) to produce high quality results. With this competency, one should project a professional presence and understand the impact of non-verbal communication. Trainer discussed about Workplace readiness skills and foundational cognitive skills.



Day 5: Group discussion and Debate

Trainer discussed about the group discussion tips ie., The first skill that students should focus on improving when delivering assessed group discussions is body language.

- Delivery strategies.
- Discussion language.
- Interaction strategies.
- Preparation.

Day 6: Interview Skills

Trainer discussed about Interview skills like Introduce yourself in a courteous manner, Have a firm handshake, Act professionally: Dress appropriately!, Keep your answers brief and concise, Maintain a conversational flow, Smile, Be enthusiastic: have a positive attitude. And few methods of Interview skills like STAR Method.

Valedictory:

Head of the Institute Dr.C.Nadhamuni Reddy, Head of the Department Dr.N.Pushpalatha, Department of ECE, Resource persons from Naandi Foundation, Faculty members, students have gathered and prizes & Journals were distributed based on their overall performance.



N. Pushpalatha
HEAD
Dept. of Electronics & Communication Engg
Annamacharya Institute of
Technology & Sciences, TIRUPATI-517 520



CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to

.....**Kanparaju Sindhu**.....

from **Department of Electronics & Communication Engineering**
of **.....AITS, Tirupati**..... on successful completion of

"Employability Skill Development Training Programme" conducted by Mahindra Pride Classroom,

Naandi Foundation in association with APITA in the year **2021 - 2022**

N. Raju Reddy
HEAD
Dept of Electronics & Communication Engg
Arunachala Institute of
Technology & Sciences, Tirupati-517 820

Andhra Pradesh Information Technology Academy

Head - Mahindra Pride Classroom



**Annamacharya Institute of Technology and Sciences, Tirupati
(AUTONOMOUS)
Department of Electronics and Communication Engineering**



A ONE WEEK WORKSHOP

on

PROGRAMMABLE LOGIC CONTROLLERS & ITS APPLICATIONS in Automation

Organised by Department of ECE in AITS::TIRUPATI from 17th February to 22nd February

The department of Electronics & Communication Engineering has organized **A One Week Workshop on Programmable Logic Controllers (PLCs)**. The workshop was conducted by Andhra Pradesh State Skill Development Corporation (APSSDC) in collaboration with SIEMENS Centre of Excellence, Anantapur from 17th to 22nd February on Programmable Logic Controllers for 3rd B.Tech ECE students. A total number of 71 students have taken active participation. The students got awareness on different issues and programming techniques during this programme.

SIEMENS Centre trainers Mr.A Sandeep, Ms.P Mounika Technical Engineers were the resource persons for the workshop. They guided all the participants and conducted hands on session on PLC equipment for various applications in industrial automation processes. The students were able to get knowledge about the PLCs automation process through programming techniques of the equipment and various simulations processes.

In this programme APSSDC Coordinator-Mr. B.MohanBabu, Dr.N.Pushpalatha HOD-ECE, Dr.C.NadhamuniReddy-Principal of AITS Tirupati, Sri C.GangiReedy Chairman AET, Sri C.AbhishekReddy-Executive Director AET, Smt. C.Poojitha Reddy-Joint Secretary AET and all faculty members of the department has congratulated all the students for successfully completing this workshop followed by assessment exam for certification.

N. Pushpalatha
HEAD

Dept. of Electronics & Communication Engg
Annamacharya Institute of
Technology & Sciences, TIRUPATI-517 520

WORKSHOP PICS



Figure 1 HOD of ECE Dr.N.Pushpalatha monitoring the students



Figure 2 Department faculty involving in workshop with students

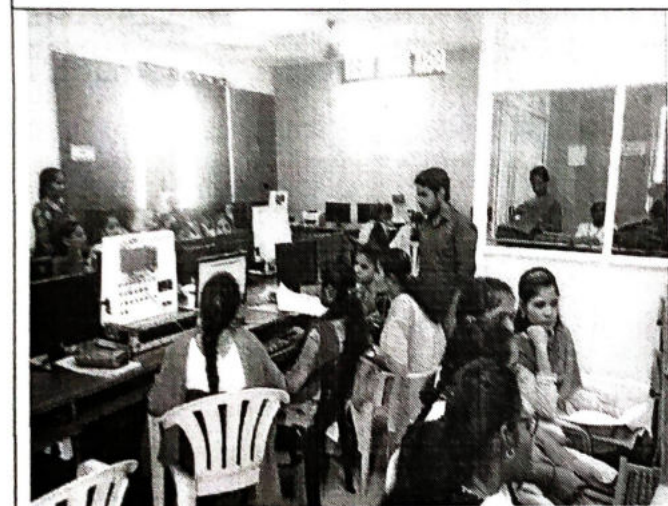


Figure 3 SIEMENS TRAINERS GUIDING THE STUDENTS

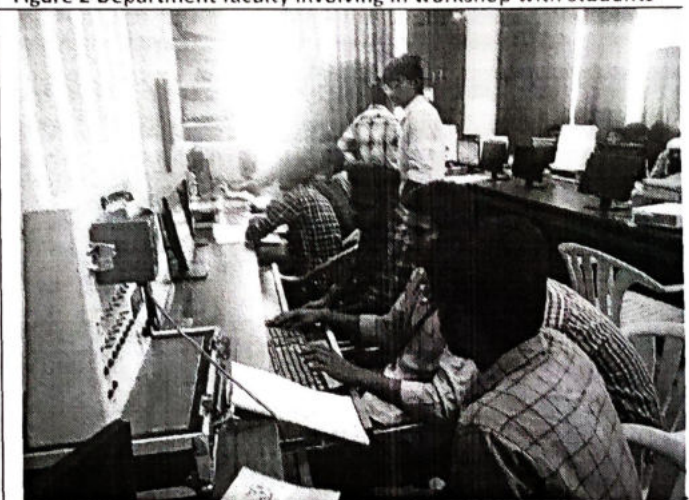


Figure 4 STUDENTS ACTIVELY WORKING WITH PLC EQUIPMENT

N. Pushpalatha

HEAD

Dept. of Electronics & Communication Engg
Annaswamy Institute of
Technology & Sciences, THIRUPATI-517 520

ముగిసిన

శిక్షణ తరగతులు



శిక్షణ పొందుతున్న విద్యార్థులు

యూనివర్సిటీ క్యాంపస్: కరకంబాడి రోడ్డులోని అన్నమాచార్య ఇంజనీరింగ్ కళాశాలలో ఏపీ నైపుణ్యాభివృద్ధి సంస్థ ఆధ్వర్యంలో ఈ నెల 17 నుంచి నిర్వహిస్తున్న శిక్షణ తరగతులు శనివారంతో ముగిశాయి. ఈసీఈ విభాగానికి చెందిన 120 మంది విద్యార్థులకు ప్రోగ్రామబుల్ లాజిక్ కంట్రోలర్స్ ఇన్ ఆటోమేషన్ అనే అంశంపై శిక్షణ ఇచ్చినట్లు ప్రిన్సిపల్ నాదమునిరెడ్డి తెలిపారు. ఈ కార్యక్రమంలో కళాశాల చైర్మన్ సి.గంగిరెడ్డి, వైస్ చైర్మన్ యల్లారెడ్డి, ఎగ్జిక్యూటివ్ డైరెక్టర్ అభిషేక్రెడ్డి పాల్గొన్నారు.

సాక్షి

Sun, 23 February 2020

<https://epaper.sakshi.com/c/45>

ఈనాడు
epaper.eenadu.net



విద్యార్థులకు శిక్షణ ఇస్తున్న శిక్షకురాలు

ఆటోమేషన్ కీలక పాత్ర

మంగళం(తిరుపతి), న్యూన్టుడే: సాంకేతిక విప్లవంలో ఆటోమేషన్ కీలక పాత్ర పోషిస్తుందని సీమెన్స్ సెంటర్ ఆఫ్ ఎగ్జలెన్స్ వ్యవస్థాపకుడు మోహన్బాబు అన్నారు. తిరుపతి నగర సమీపంలోని అన్నమాచార్య ఇంజనీరింగ్ కళాశాలలో శనివారం ఈసీఈ విభాగం ఆధ్వర్యంలో ఏపీ నైపుణ్యాభివృద్ధి సంస్థ నేతృత్వంలో 'లాజిక్ కంట్రోలర్స్ ఇన్ ఆటోమేషన్' అంశంపై సాంకేతిక శిక్షణ కార్యక్రమం నిర్వహించారు. సీమెన్స్ సెంటర్ ఆఫ్ ఎగ్జలెన్స్ సంస్థ ప్రతినిధులు విద్యార్థులకు ఆటోమేషన్ పై శిక్షణ ఇచ్చారు. కళాశాల చైర్మన్ గంగిరెడ్డి, డైరెక్టర్ అభిషేక్రెడ్డి, ప్రిన్సిపల్ సి.నాదమునిరెడ్డి, శిక్షకులు మౌనిక్, సుదీప్, వాణి, సి.పూజిత తదితరులు పాల్గొన్నారు.

Date : 23/02/2020 EditionName : ANDHRA PRADESH
(CHITTOOR, TIRUPATI) PageNo : Page 01

N. Pushpalatha
HOD-ECE

HEAD

Dept. of Electronics & Communication Engg
Annamacharya Institute of
Technology & Sciences, TIRUPATI-517 520

SIEMENS BASICS OF PLC COURSE CONDUCTED AT S.V.UNIVERSITY ON

17-02-2020 to 22-02-2020

CERTIFICATES LIST

S.No	Roll Number	Name of Student
1	17AK1A0403	ADITHYA R
2	17AK1A0404	AKHILA S
3	17AK1A0408	ANJALI G
4	17AK1A0409	ASHALATHA B
5	17AK1A0410	ASWINI K
6	17AK1A0411	BALAJI T
7	17AK1A0412	BHAVANA M
8	17AK1A0413	BHAVANA DEEPHY N
9	17AK1A0414	BHAVANA A
10	17AK1A0415	CHAKRADHAR B
11	17AK1A0416	CHAKRAVARTHI M A
12	17AK1A0417	CHANDANA M
13	17AK1A0419	CHANDINI C
14	17AK1A0420	CHANDRAVANI D
15	17AK1A0421	DEEPTHI B
16	17AK1A0422	DIVYA VANI M
17	17AK1A0423	DURGA V
18	17AK1A0425	GEETHA VANI S
19	17AK1A0426	GEETHIKA BRAHMINI M B
20	17AK1A0430	GOWTHAMI G
21	17AK1A0432	HARI PRIYA A N
22	17AK1A0433	HARINI REDDY N
23	17AK1A0434	JAGADISH J
24	17AK1A0436	JANANI REDDY N
25	17AK1A0437	JASWANTH M
26	17AK1A0440	JYOSHNA M
27	17AK1A0445	KIRAN KUMAR REDDY M
28	17AK1A0451	VARUNTEJA N
29	17AK1A0452	HARSHINI PRIYA M
30	17AK1A0453	LAKSHMI DEVI P
31	17AK1A0455	LATHASREE M
32	17AK1A0457	MADHURI C
33	17AK1A0458	MAMATHA K
34	17AK1A0462	MEGANA G

N. Raghav Kumar

HEAD

Dept. of Electronics & Communication Engg
Annamacharya Institute of
Technology & Science, TIRUPATI-517 520

35	17AK1A0463	MEGASREE G
36	17AK1A0464	MONISHA D
37	17AK1A0465	MUKESH KUMAR P
38	17AK1A0470	NAVEEN T
39	17AK1A0471	NAVEEN KUMAR K
40	17AK1A0474	NEELAKANTESH P
41	17AK1A0475	NIKHIL L
42	17AK1A0477	NITHYASREE B
43	17AK1A0479	PADMAJA K
44	17AK1A0481	PAVAN KALYAN Y
45	17AK1A0482	PAVANA M
46	17AK1A0487	PREETHI N
47	17AK1A0489	RAKESH C
48	17AK1A0490	RAMESH S
49	17AK1A0491	RAMYA S
50	17AK1A0497	SAI KUMAR K
51	17AK1A04A0	VIVEK PRASAD M
52	17AK1A04A4	SADIQ G
53	17AK1A04A5	SAI CHETHANA V
54	17AK1A04A7	SAIPRASANNA T
55	17AK1A04A9	SANTHOSH KUMAR P
56	17AK1A04B0	SARAN KUMAR V
57	17AK1A04B1	SASI KUMAR K
58	17AK1A04B4	SIVA KUMAR S
59	17AK1A04C0	SURYA PRAKASH S
60	17AK1A04C5	TEJASWINI B
61	17AK1A04C9	VENKATA PRADEEP S
62	17AK1A04D0	VINAY KUMAR K
63	17AK1A04D3	VISHNU B
64	17AK1A04D4	YAMINI B
65	17AK1A04D5	YASWANTH A
66	17AK1A04D6	YUGANDHAR T
67	18AK5A0401	ARUNA KUMARI S
68	18AK5A0404	NAGA BHUSHAN K
69	18AK5A0405	PURUSHOTHAM MOUNISH BABU G
70	18AK5A0406	RAJASEKHAR E
71	18AK5A0407	SHABEER BASHA

N. Pushpalatha

HEAD

Dept. of Electronics & Communication Engg
 Annamalai Institute of
 Technology & Sciences, TIRUPATI-517 520

SIEMENS

Ingenuity for life



• **DesignTech**
Technology for designing the future

Certificate of Completion

siemens.co.in

This is to certify that **Adithya Ramapuram, A.I.T.S, Tirupati**....

bearing number..... **DSL/APSSDC/43598**has successfully

completed..... **Basics of PLC** Course

Conducted at

... **Sri Venkateswara University College of Engineering, Tirupati**

from **17-Feb-2020 to 22-Feb-2020**

Authorized Signatory:

Siemens Industry Software Pvt. Ltd

Authorized Signatory:

APSSDC

Authorized Signatory:

DesignTech Systems Limited

N. Pushpalatha
HEAD

Dept. of Electronics & Communication Engg
Annamacharya Institute of
Technology & Sciences, TIRUPATI-517 520