



SREE VENKATESWARA COLLEGE OF ENGINEERING

An ISO 9001:: 2015 Certified Institution
(Approved by AICTE, New Delhi and Affiliated to JNTU, Anantapur)
Northrajupalem (Vi), Kodavaluru(M) , S.P.S.R Nellore (Dt)-524316

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

LIST OF WORKSHOPS

Academic Year	Date	Year & Batch	Title	Name Of The Company	Name Of The Resource Person	No Of Students Attended
2021-22	11-02-2022 To 13-02-2022	2018 BATCH IV YEAR	MATLAB	Innovians Technology	Mr.Vineeth Jaganathan & Mr. SD. Asadur Rahman, Lead Trainer	58
	30-12-2021 To 31-12-2021	2019 BATCH III YEAR	Awareness on Socially Relevant projects	SV Technologies, Nellore	Mr.B.V.Sumanth Project Developer	53
	16-12-2021 To 18-12-2021	2018 BATCH IV YEAR	Industrial Automation	SV Technologies, Nellore	Mr.B.V.Sumanth Project Developer	58
	25-08-2021 To 26-08-2021	2019 BATCH III YEAR	PCB Design	Takeoff Edu Group	Miss.V.Sunitha	55

REPORT-1

The Electrical and Electronics Engineering department has organized a Workshop on “MATLAB” from 11th February 2022 to 13th February 2022. The resource person was Mr.Vineeth Jaganathan & Mr. SD.Asadur Rahman, Lead Trainer Innovians Technology. The 4th year B.Tech students of EEE department have attended this workshop.

Number of students participated in this workshop: 58

The resource person shared his insights, real life scenarios, practical use cases and their solutions on the simulation of electrical systems using MATLAB.

On the first day the session started with keynote lecture on simulation of electrical systems and future of connected world. It also provided the insights of simulation

applications for manufacturing, military, learning environment, health care and network simulations.

The second session began with electrical system simulation involves modelling power generation equipment, planning the integration of power plants onto the electric grid, and performing generator control system parameter estimation. Critical power system simulation and optimization tasks includes Simulating performance against grid code and ensuring production goals are met Automating control system parameter estimation to meet regulatory requirements, Performing EMT simulation and harmonic analysis to identify and mitigate power quality issues.

The next day continued with the Simulation based tools for power systems, power system dynamics which includes general mathematical modeling of power systems, simulation based tools for power electronics and how to draw the simulation block diagrams using MATLAB.

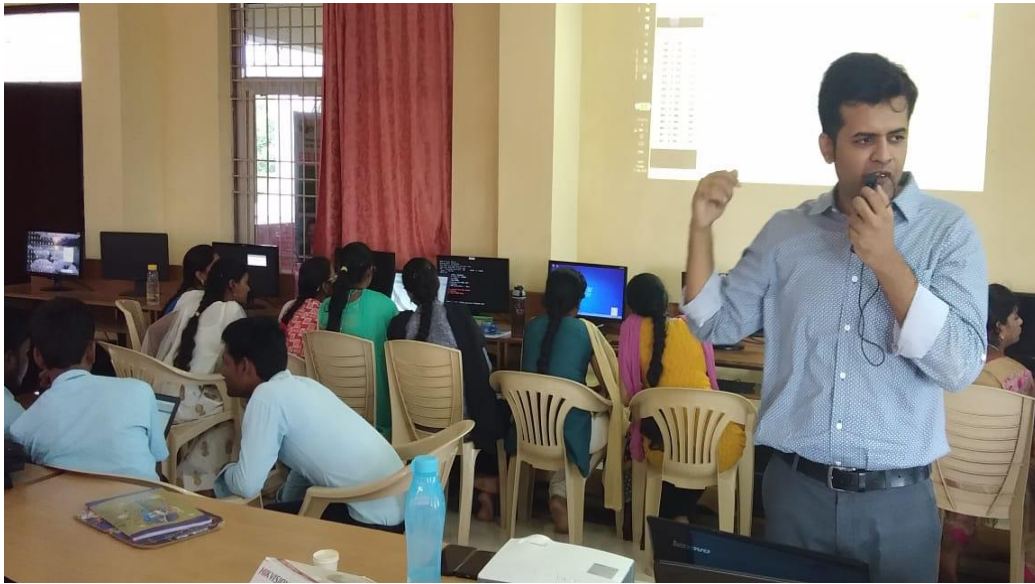
In the later session, he gave a task to the students that are the most useful to the students for interaction with the resource person. It includes practice on simulation of power systems like single area power system, double area power system, Simulation of power electronics devices i.e for Buck converter as well as boost converters and how to obtain the response of system for various conditions. The resource person discussed with real time examples and the session was made really interactive by providing an opportunity to suggest a solution to real life scenario.

PHOTO 1



Resource person explaining the importance of **MATLAB**

PHOTO 2



Training the challenges and applications of **MATLAB**

REPORT-2

The Electrical and Electronics Engineering department has organized a Workshop on “Awareness on Social Relevant Projects” from 30th Dec 2021 to 31st Dec 2021. The resource person was Mr. B Venkata Sumanth , SV Technology. The III year B.Tech students of EEE department have attended this workshop.

Number of students participated in this workshop: 53

The objective of the workshop sessions was to make the students to utilize the latest’s software technologies for doing the projects helpful for societal needs.

The resource person shared his insights, real life scenarios, practical use cases and their solutions on the Internet of Things using Aurdino. The workshop started by providing real IoT experience at the registration desk itself- when students mobile flashed up with the workshop welcome screen on their arrival at the registration desk.

On the first day the session started with keynote lecture on IoT and future of connected world. It also provided the insights of IoT applications for smart home, smart cities, smart lights, smart retails, smart phones, energy issues, health and life style and car connect.

The next session began with how the proliferation of connected devices and the technology capabilities is transforming the industry with cloud data. He also discussed the various areas of IoT analytics application world of wearable applications which includes Health care, Smart appliances and wearable technology.

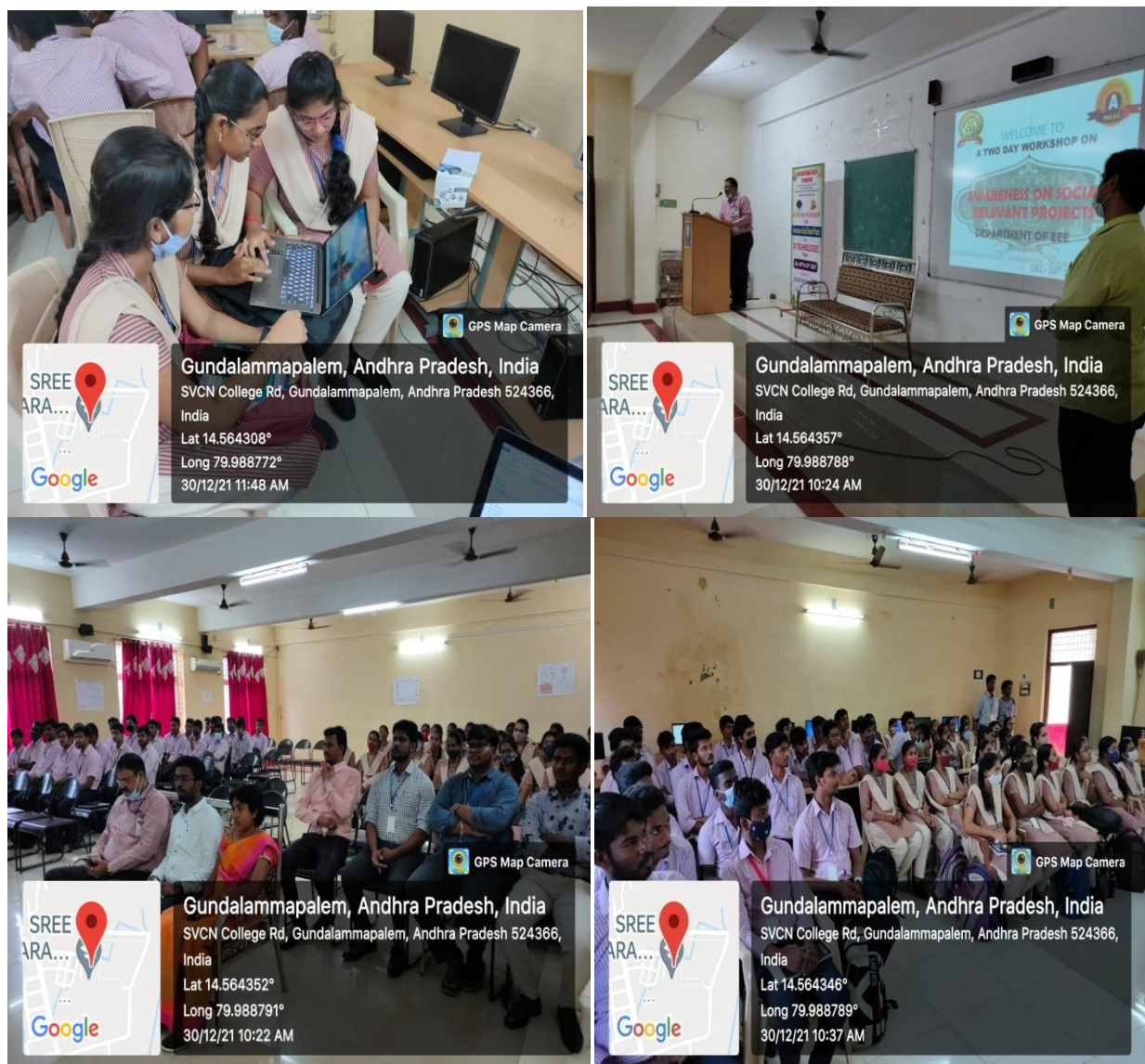
The following session continued with the Computing trends which includes Pre computer era, wired computing era, wireless computing era and web of world. Working of IoT using Aurdino which includes sensors and actuators, its connectivity with the people and processes were discussed. To illustrate the concepts of computing more lucid, he shared videos on technologies related to it.

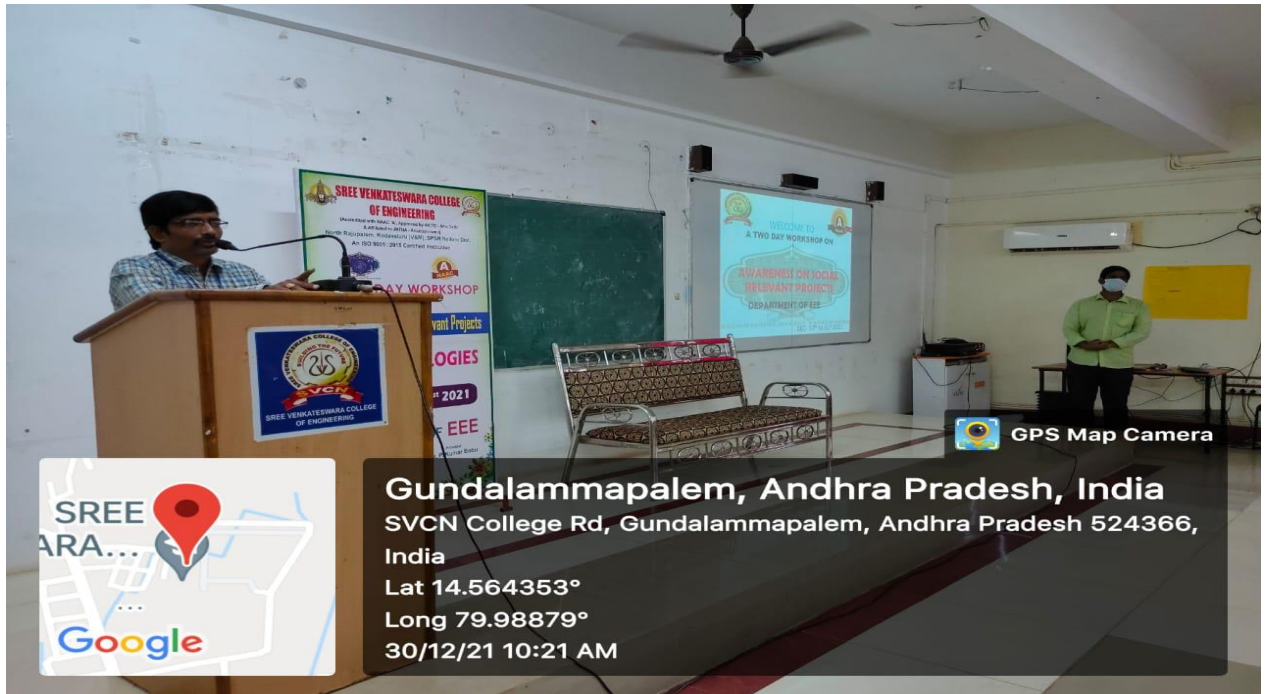
In the later session, he discussed four layers model of IoT i.e integrated applications, information processing, network construction and sensing and identification. He also discussed current status and future prospect of IoT.

IoT security which includes mobile security, access control, authentication privacy, policy enforcement, secure middleware and confidentiality were discussed with real time examples and the session was made really interactive by providing an opportunity to suggest a solution to real life scenario.

Later on the course was planned to provide hands on experience with IoT device and application. Students were introduced to the Wi-Fi concept from a programming point of view and its relevance to IoT device. All the students participated in coding for accessing light, blinking of LED and sensing a key pressed on IoT Kit through Android application.

Photo gallery





PRESS

శిక్షణా తరగతులతో నైపుణ్యత పెంపొందించుకోవాలి

కొడవలూరు,డిసెంబర్ 30 (ప్రభున్యూస్) : విద్యార్థులు శిక్షణ తరగతుల పాల్గొని తమ నైపుణ్యతను పెంపొందించుకోవాలని కళాశాల ప్రిన్సిపాల్ పి కుమార్ బాబు పేర్కొన్నారు. మండలంలోని నార్త్ రాజుపాలెంలో ఉన్న శ్రీ వెంకటేశ్వర ఇంజనీరింగ్ కళాశాలలో అవేర్స్ అఫ్ సోషల్ రీ లా వెంట ప్రాజెక్ట్ అంశంపై గురువారం నిర్వహించిన శిక్షణా తరగతులు నిర్వహించారు. తద్వారా విద్యార్థులు నైపుణ్యతను పెంపొందించుకోవటానికి ఎంత గాను దోహదపడతాయని కళాశాల ప్రిన్సిపాల్ కుమార్ బాబు తెలిపారు. కళాశాలలోని ఎలక్ట్రికల్ ఈ ఈ విభాగ అధిపతి అనిల్ మాట్లాడుతూ విద్యార్థులకు లేట్స్ బెక్కులతో ఆయన ఐ ఓటీ సాఫ్ట్ వేర్ ఉపయోగించి సోషల్ రిలే వెంట ప్రాజెక్ట్ ట్రాఫిక్ లైట్ కంట్రోల్ ఎనర్జీ ఆడిటింగ్ ఎలక్ట్రికల్ సిస్టమ్ అగ్రికల్చర్ సోలార్ వాటర్ పంపింగ్ వాటి గురించి ప్రతినిధులు వివరించడం జరిగింది. ఎటువంటి అవకాశాలు వినియోగించుకొని దేశాభివృద్ధికి కృషి చేయాలని కళాశాల డైరెక్టర్ పెనుబిల్లి కృష్ణ చైతన్య పిలుపు నిచ్చారు. ఈ కార్యక్రమంలో విభాగాధిపతి అనిల్ కుమార్, అధ్యాపకులు, సిబ్బంది, విద్యార్థులు పాల్గొన్నారు.



శిక్షణలో పాల్గొన్న ఇంజనీరింగ్ విద్యార్థులు

సాంఘిక ఉపకారప్రాజెక్ట్ వర్క్ షాప్

ప్రతిభిషితులూరు

మండలంలోని నార్త్ రాజుపాలెం శ్రీ వెంకటేశ్వర ఇంజనీరింగ్ కళాశాలలో రెండో రోజు ప్రాజెక్ట్ అనే అంశంపై నిర్వహించిన శిక్షణ తరగతులు విద్యార్థుల నైపుణ్యతను పెంపొందించుకోవటానికి ఎంతగానో దోహదపడతాయని కళాశాల ప్రిన్సిపాల్ పి కుమార్ బాబు పేర్కొన్నారు. కళాశాలలో ఎలక్ట్రికల్ ఈ ఈ ఈ మూడవ సంవత్సరం విద్యార్థులకు ఎన్ఎ డెకాల్ అవ్వడంలో రెండు రోజులపాటు శిక్షణ తరగతులు నిర్వహించారు. ఈ సందర్భంగా ఈ విభాగాధిపతి అనిల్ కుమార్ మాట్లాడుతూ శిక్షణ తరగతులలో భాగంగా విద్యార్థులకు లేట్స్ బెక్కులతో ఆయన ఐ ఓటీ సాఫ్ట్ వేర్ ఉపయోగించి సోషల్ రిలే వెంట ప్రాజెక్ట్ ట్రాఫిక్ లైట్ కంట్రోల్ ఎనర్జీ ఆడిటింగ్ ఎలక్ట్రికల్ సిస్టమ్ అగ్రికల్చర్ సోలార్ వాటర్ పంపింగ్ వాటి గురించి ప్రతినిధులు వివరించడం జరిగింది. ఎటువంటి అవకాశాలు వినియోగించుకొని దేశాభివృద్ధికి కృషి చేయాలని కళాశాల డైరెక్టర్ పెనుబిల్లి కృష్ణ చైతన్య పిలుపు నిచ్చారు. ఈ కార్యక్రమంలో విభాగాధిపతి అనిల్ కుమార్, అధ్యాపకులు, సిబ్బంది, విద్యార్థులు పాల్గొన్నారు.



విద్యార్థులకు శిక్షణ, ప్రాజెక్ట్

ఎలక్ట్రికల్ ప్రాజెక్ట్ సిస్టమ్ ఇన్ దేశ ఆభివృద్ధికి కీలక పాత్ర పోషిస్తున్న కళాశాల అగ్రికల్చర్ సోలార్ వాటర్ పంపింగ్ డైరెక్టర్ పెనుబిల్లి కృష్ణ చైతన్య పిలుపు నిచ్చారు. ఈ కార్యక్రమంలో ప్రతినిధులు వివరించడం జరిగింది. అధ్యాపకులు, అధ్యాపకేతర సిబ్బంది అయిన కంట్రోల్ ఎనర్జీ ఆడిటింగ్ అవకాశం చక్కగా వినియోగించుకొని పాల్గొన్నారు.

REPORT-3

The Electrical and Electronics Engineering department has organized a Workshop on “Industrial Automation” from 16th Dec 2021 to 18th Dec 2021. The resource person was Mr. B Venkata Sumanth , SV Technology. The IV year B.Tech students of EEE department have attended this workshop.

Number of students participated in this workshop: 58

The resource person shared his insights, real life scenarios, practical use cases and their solutions on Industrial Automation..

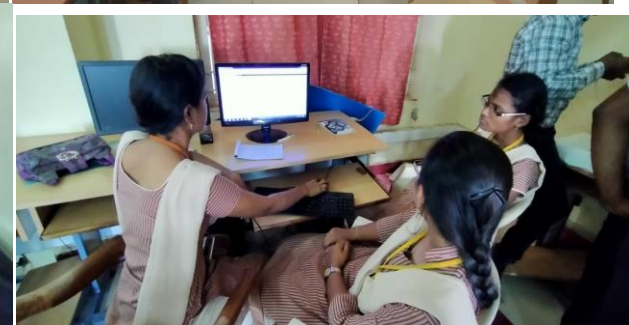
On the first day the session started with keynote lecture on Industrial automation and future of connected world. It also provided the insights of Industrial automation applications for various control systems for operating machinery, processes in factories, boilers and heat treating ovens, switching in telephone networks, steering and stabilization of ships, aircrafts and chemical processes.

The second session began with that the Most Used Guiding Force Behind An Automated Industrial Plant Is A "Programmable Logic Controller" Generally Known As A PLC. PLCs Along With Certain Other Necessary Ingredients Like Sensors, Motors, Actuators, Valves, Conveyors, Boilers, SCADA Systems, Computers & Many More, Makes A Real Automated Manufacturing Plant. The main objective of Industrial Automation Workshop is to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the Industrial Automation & latest technologies being used to achieve industrial automation.

The next session continued with the Architecture and hard ware over view of Programmable Logic Controller. He also explained programming of PLC, Features of SCADA Software, PLC and SCADA communication which were used in industrial automation.

In the later session, he gave a task to the students that made students for interaction with the resource person. The system acquires and processes real time data through direct interaction with the devices such as sensors and PLCs and records events into a log life. SCADA(Supervisory Control And Data Acquisition) is important for data analysis and enables effective decision making for optimization in industrial processes. The resource person discussed with real time examples and the session was made really interactive by providing an opportunity to suggest a solution to real life scenario.

Photo gallery



REPORT-4

The Electrical and Electronics Engineering department has organized a Workshop on “PCB Design” from 25th Aug 2021 to 26th Aug 2021. The resource person was Miss. V Sunitha Takeoff Edu Group . The III year B.Tech students of EEE department have attended this workshop.

Number of students participated in this workshop: 55

The resource person shared his insights, real life scenarios, practical use cases and their solutions on the Printed Circuit Board Design.

On the first day the session started with keynote lecture on Printed Circuit Board and future of connected world. It also provided the insights of Printed Circuit Board for Light Emitting Diodes, medical devices, industrial equipment, Aerospace components, safety and security equipment and automotive components.

The second session began with that Before PCB design, circuit designers are recommended to get a tour of a PC board shop and communicate with fabricators face to face over their PCB manufacturing demands. It helps prevent designers making any unnecessary errors from getting transmitted during the design stage. However, as more companies outsource their PCB manufacturing inquiries to overseas suppliers, this becomes impractical. On this account, we present this article in order to provide a proper understanding of PCB manufacturing steps. Hopefully it gives circuit designers and those new to PCB Industry a clear view on how printed circuit boards are manufactured, and avoid making those unnecessary errors.

The next session continued with the Importance of Printed Circuit Board design and he covered Design rules of Printed Circuit Board, Making of PCB, Types of PCBs it includes Single side bond PCB, Double side bond PCB and Multi layer bond PCB. He also explained the procedure to design PCB which includes various steps like designing of PCB, Printing of PCB, printing of copper for interior layers, getting Rid of unneeded copper, inspection and layer alignment, laminating PCB layers, drilling, PCB plating, etching, finishing PCB and electrical reliability testing.

In the later session he planned to provide hands on experience with PCB design and applications. Students were designed PCBs for blinking of LED and automatic sensing of water level detector with buzzer. All the students were participated in design of PCBs and they interacted with the resource person during the design process.

Photo 1:



Photo 2:

