

Activities Department Of ECE

We are living in challenging times called the **digital era** where technology is constantly evolving in areas like cloud computing, networking, networking, big data, data security, etc.

Internet of Things, has the capacity to connect shocking amount of **data with devices** and manage networks through automation. This requires routing and switching knowledge and one can exploit this demand.

So to catch up with the waves of change, we at ECE Department, believe that now is the best time to focus on our students and provide sound training to help them become competent technically and enhance their skills to match up to the vibrant technological developments.

During this period we have conducted the following events :

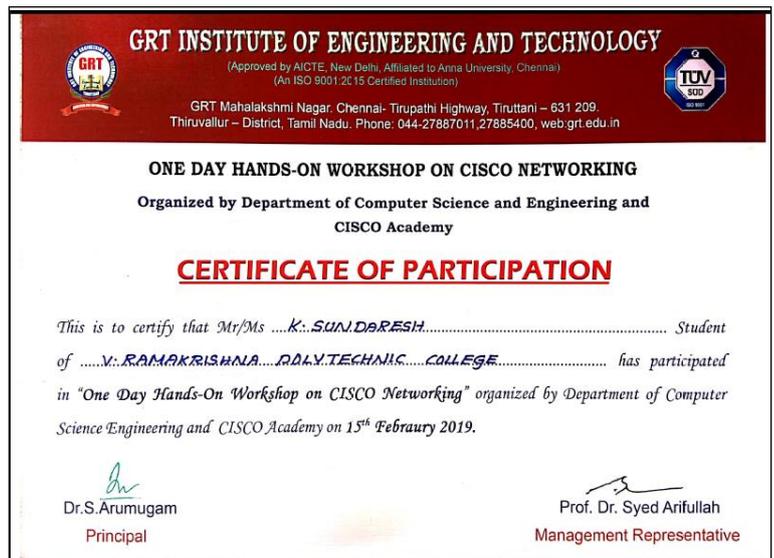
One day hands on workshop on Cisco Networking

4 students from III year ECE

- Sundaresh
- Tarun
- Suresh
- Bharath

attended the 'Hands on workshop on CISCO Networking at GRT Engg College on 15/2/19

They learnt about topologies / routers / connectors / programming concepts etc





A one day

Workshop on Erection and Servicing of CCTV

was conducted on 11 /02/2019.

Mr.Prakash & team from Smart Technologies werethe resource person

Both II year and III yaer students participatedin this workshop.

They learnt the need, convenience, safety, simplicity and application of CCTVs; their erection and convenience.

2 cameras were installed and demonstrated. Some of the students wanted to take it up as a profession also.



seminar on Industrial Internet of Things

Broadband Internet is become more widely available, the cost of connecting is decreasing, more devices are being created with Wi-Fi capabilities and sensors built into them, technology costs are going down, and smartphone penetration is sky-rocketing. All of these things are creating a "perfect storm" for the IoT. Hence a seminar on **Industrial Internet of Things** was conducted on 29/1/19.

Mr. Praveen from Technocrat Automation was the resource person

IIOT is the concept of basically connecting any device with an on and off switch to the Internet (and/or to each other). This includes everything from cellphones, coffee makers, washing machines, headphones, lamps, wearable devices and almost anything else you can think of. This also applies to components of machines, for example a jet engine of an airplane or the drill of an oil rig.

Both II year and III year students participated in this workshop. They learnt the purpose, technology and application of Internet of things - its ability to connect a staggering amount of data and devices and software-defined networking.



Staff Development Program @ SAVETIHA Engineering College

Leadership Workshop on “ *Competency Building in Technical Institutions and knowledge sharing* “ was held on 9th Feb 2019 at Saveetha Engineering College Chennai and sponsored by FICCI Tamilnadu state council.

Advisor Mam **Mrs.Devika Sivakumar** and team of staff, **Ms.Poongodi, Mr.Joshua RajMohan, Mr.S.Venkatesan** attended the workshop.



Industrial visits

The Institution works very closely with some of the industries and Institutions of higher learning. Educational visits are arranged to Industries, IITs and other Universities which gives

students better understanding of the concepts which they learn in their class rooms.

Visit to Electric Loco Shed, Royapuram

students better understanding of the



Date of visit	27/02/2019
Company profile	<p>Southern Railway's electric loco shed in Royapuram is getting a major facelift that is expected to raise quality of maintenance of various classes of locomotives used for express trains and bring down timelines for periodic overhaul of the engines. Though the electric loco shed was initiated in 2007 with ambitious plans of turning it into a hub for maintenance of locomotives, the modernisation plan was slow in taking off in spite of increasing demand for electric locomotives. The Royapuram facility is also only the third of its kind after the ones in Arakkonam (primarily freight locos) and Erode (passenger and goods locomotives). The upgrade will considerably tone up preventive maintenance and annual overhaul works," an official said. The Royapuram loco shed has a holding capacity of 75 locos that serve various categories of passenger trains, including the high-speed Rajdhani express services.</p>
Description of visit	<ul style="list-style-type: none"> • Explained about the engine motor and its carbon maintenance. • Explained about locomotives • Explained about ETS • Explained about roller bearing
Objective of visit	<ul style="list-style-type: none"> • To understand the locomotives of express trains • To understand the preventive maintenance in loco shed • To understand ETS(electric train supply) • To understand engine motors
Outcome of visit	<ul style="list-style-type: none"> • Acquired knowledge about roller bearing • Acquired knowledge about ETS and engine motor, locomotives

Visit to *Tamilnadu Transmission Corporation, Sub-Station, Manali*



Date of visit	18/02/2019
Company profile	The existing transmission network is strengthened year after year by establishing new substations, lines and upgrading the existing system to meet the capacity addition in generation and to meet the demand. As per Tarang News letter 3rd Edition dt 12.04.17, TANTRANSCO has emerged as top performer among State Transmission utilities in commissioning of Intra State Transmission lines and third in transformation capacity addition during the year 2016-17. Among all State Transmission utilities in India, TANTRANSCO is the first utility to erect a 765 KV transmission network.
Description of visit	<ul style="list-style-type: none"> • Different generation and transmission ranges 110/230/400 KV have been explained. • Transformer for all ranges are shown in different unit and explained. • Transmission medium and cause of losses are explained. • ICT(Integrated circuit terminal) panels are explained for line transmission and fault deduction. • Bus routers are explained in different units
Objective of visit	<ul style="list-style-type: none"> • To understand generation of 110/230/400 KV supply. • To get knowledge about the transmission and transmission medium • To understand voltage and current transformers in different ranges • To get knowledge about three phase line supply
Outcome of visit	<ul style="list-style-type: none"> • Understood the transformers of different ranges. • Acquired knowledge about generation and transmission of supply. • Three phase supply for household and industry is understood. • Line fault finding methodology is cleared

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Visit to Technocrat Ro Plant at Ambathur



Place of visit	TECHNOCART AUTOMATION PVT LMT
Company profile	<p>Technocrat automation is one among the few centers where to get top class <u>automation training</u>. Students are offered various certified courses in <u>automation training</u>. They have the best team which offers <u>automation course</u> at Technocrat to know which the affordable <u>automation course</u> are, it is always Technocrat when you compare it to the quality of content we impart. They offer various courses such as PLC, SCADA, GSM PLC, Pneumatics and field instruments etc. with certification and practical training sessions to the students. For students who prefer automation training, Chennai is their prime choice. Technocrat's training, which is a helpful <u>automation training</u>, is offered to its students who want to study an automation course itself, without having to move to other cities. Students who do not reside in Chennai,.</p>
Description of visit	<ul style="list-style-type: none"> • DCS plant operation is explained • Handling of process module is explained • MMI of water treatment plant is explained
Objective of visit	<ul style="list-style-type: none"> • To understand DCS plant operation. • To get knowledge about the process module • To understand water treatment plant

Outcome of visit	<ul style="list-style-type: none"> • Understood the water treatment plant processing module practically. • Acquired knowledge about DCS and MMI. • Acquired knowledge about automation interface.
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Online test taken by students YOUTH FOR WORK

Youth4work.com is a "Platform" which empowers youth to assess themselves, improve their talents and showcase themselves in terms of their talents and professional achievement. It provides options for different types of tests like talent, prep, psychometric, typing besides providing a space for learning through different online and offline courses. It maintains a database of profiles of registered candidates which can be viewed by the employers.

It helps both the job seeker and the job provider.



Our students were introduced to this platform and were asked to register individually and take up as many online tests as they could. A few of them repeated the tests in order to improve their scores

Students were motivated to do the following tasks so that they are noticed by job providers.

1. **Online ytests** - Online Aptitude Tests Free | Best Online Tests - Youth4work yTests
2. **Build Your Online Professional Profile** at Youth4work for the world
3. **Improve your yrank**

S & T Capacity Building for Industrial Needs

S.Deepa of III year ECE attended this workshop on '*S & T Capacity Building for Industrial Needs*' at SRIRAM Polytechnic college in association with TamilNadu State Council for Science and Technology between 6th of Feb and 8th of Feb 2019.

The following concepts were covered during this workshop:

- Enrepreneurship
- Industry Expectation
- Motivation
- Financial constraints
- 4G technology
- IOT / Embedded sytems
- Personality development
- Resume Building

