SCIENTIST OF THE MONTH:

ANDRÉ-MARIE AMPERE (1775-1836)

Was born on 20 January 1775. He was a mathematician, a chemist, a physicist and a philosopher. Ampere became the professor of physics and chemistry at the École-Centrale of Bourgen-Bresse, where he worked on probability theory. Between 1820 and 1825, after a series of experiments, Ampère provided factual evidence for his contention that magnetism was electricity in motion, summarized in his famous 9 points. They describe the law of action of current carrying wires, and model magnets as having circulating currents in them. Ampère was able to unify the fields of electricity and magnetism on a basic numeric level. Fresnel helped Ampère improve his theory by suggesting that there may be currents of electricity around each molecule. Ampère assumed that the 'electrodynamic molecule' was a molecule of iron that decomposed the aether that pervaded both space and matter into the two 'electric fluids.' Ampere's theory of the electrodynamic molecule was not accepted by everyone. His primary opponent was Michael Faraday, who could not follow the mathematics and did not accept his theory. The SI unit of electric current was named after him as **Ampere** in the name of his Honor.

UPCOMING JOB OPPURTUNITIES:

1. CTS is arriving to KITS College for pool campus drive on the end of this month.
2. TCS is going to conduct an off-campus Drive on 2nd march

KITS KKR & KSR INSTITUTE OF TECHNOLOGY & SCIENCES
Approved by AICTE New Delhi | Affiliated to JNTU Kakinada
KLTA Exploring the Un-Explored

POLARIS

THE RIGHT SPARK
A NEWSLETTER OF ELETRICAL & ELECTRONICS DEPARTMENT

VOL-1 ISSUE-1 JAN-2016

EDITOR'S VOICE:

Solar cells were used to convert renewable sun energy to electrical energy and because of high cost of the materials used in its manufacturing, new methods were followed to reduce that cost including luminescent solar concentrators (LSC).The transparent matrix contains luminescent molecules or particles such as, organic dyes or quantum dots part of light emitted by the luminescent particles is guided towards the solar cell by total internal reflection, the plate functioning as a waveguide. The LSC is particularly suited to this application as it is relatively inexpensive, does not require solar tracking and works in both diffuse and direct sun light. The LSC can be designed such that the luminescence energy matches the PV cell by this way the light reaching the cell is converted more efficiently, because the down conversion of the radiation happens in LSC. Hence by using this, we can eliminate the PV cell complexity and to improve efficiency for tracking sun energy.

(Mrs.RAMINENI.PUNYAVATHI)
Asst.Professor

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STUDENT'S ACTIVITIES:

The Department of Electrical and Electronics had a reason to celebrate after the declaration of JNTUK University Exam Results. A hearty congratulations to all the toppers of IV & III Year students for putting in fabulous performance at the semester Exams. The effort and dedication of these students have drawn state level recognition not only for the Department of Electrical and Electronics Engineering but also for the KKR&KSR Institute of Technology & Sciences. Let this considered as a source of inspiration to the entire students of the department and an impetus to excellence. A big thumbs to all the faculty members who prepared the students for such a success.

_____IV YEAR TOPPERS_____

_____III YEAR TOPPERS_____

YEAR	NAME OF STUDENT	PERCENTAGE (%)
IV	S.APARNA	82.80
	B.ANIL KUMAR	82.40
	B.KRISHNA REDDY	82.00
III	K.RAJASEKHAR	77.29
	G.JEETHENDHRA	75.76
	M.REVATHI	75.53

PLACEMENTS:

- **Mr. B.ANIL KUMAR** (12JR1A0219) of final year, selected in INFOSYS on 11th January 2016

GATE-2016:

- **25** Students from Final Year EEE have attended for GATE-2016 exam.

IELTS:

- **Mr. P.CHAKRADHAR** (11JR1A0244) had scored 7.5 in IELTS Exam held in January 2016.

WORKSHOP:

MATLAB/SIMULINK workshop:

MATLAB/SIMULINK workshop is organized by the VOLTA ASSOCIATION, as a 6 day workshop from 18-01-2016 to 23-01-2016 which was conducted by the Naresh engineering coaching institute, (NEC) Vijayawada. The workshop deals with solving the complex problems in the power system operation by designing them in the pc's using this software. The main feature of this session is how to reduce the economic aspects, saving time and safety of operation.

3 days as a session of explanation and 3 days of practice session on designing power electronic converters and physical modelling of electric circuits.

OUR HONORABLE PRINCIPAL Dr.P.BABU SIR ADDRESSING THE 4TH AND 3RD YEAR STUDENTS ABOUT THE WORKSHOP

SECRETARY K.SEKHAR GARU (RIGHT) & RESOURCE PERSON FROM NEC INSTITUTE (LEFT)

PRINCIPAL'S MESSAGE AT VALEDICTORY OF WORKSHOP:

"Workshops like this will improve the economic and time awareness of project. Students have to apply these type of software applications for real time projects" he said. And promised that "college will encourage these type of workshops which are further useful for students", he added.