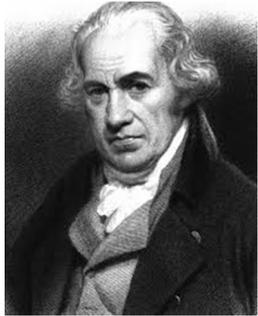


SCIENTIST OF THE MONTH:



James watt (1736-1819)

James Watt FRS FRSE was a Scottish inventor, mechanical engineer, and chemist whose Watt steam engine, an improvement of the Newcomen steam engine, was fundamental to the changes brought by the Industrial Revolution in both his native Great Britain and the rest of the world.

While working as an instrument maker at the University of Glasgow, Watt became interested in the technology of steam engines. Watt introduced a design enhancement, the separate condenser, which avoided this waste of energy and radically improved the power, efficiency, and cost-effectiveness of steam engines. Eventually he adapted his engine to produce rotary motion, greatly broadening its use beyond pumping water.

Watt attempted to commercialize his invention, but experienced great financial difficulties until he entered a partnership with Matthew Boulton in 1775. The new firm of Boulton and Watt was eventually highly successful and Watt became a wealthy man. In his retirement, Watt continued to develop new inventions though none was as significant as his steam engine work. He died in 1819 at the age of 83.

He developed the concept of horsepower and the SI unit of power, the watt, was named after him



POLARIS

THE RIGHT SPARK

A NEWSLETTER OF ELECTRICAL & ELECTRONICS DEPARTMENT

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EDITOR'S VOICE:

THE SPHERICAL SUN POWER GENERATOR

German Architect Andre Broessel believes he has a solution that can “squeeze more juice out of the sun”, even during the night hours and in low-light regions. His company **Raw lemon** has created a spherical sun power generator prototype called the **Beta ray**. His technology will combine spherical geometry principles with a dual axis tracking system, allowing twice the yield of a **conventional solar panel** in a much smaller surface area. The futuristic design is fully rotational and is suitable for inclined surfaces, walls of buildings, and anywhere with access to the sky. It can even be used as an **electric car** charging station. “The beta ray comes with a hybrid collector to convert daily electricity and thermal energy at the same time. While reducing the silicon cell area to 25% with the equivalent power output by using our ultra-transmission Ball Lens point focusing concentrator, it operates at efficiency levels of nearly 57% in hybrid mode. At nighttime the Ball Lens can transform into a high-power lamp to illuminate your location, simply by using a few LED's. The station is designed for off grid conditions as well as to supplement buildings' consumption of electricity and thermal circuits like hot water.”

CONTENTS:

Editor's voice Page1

Student' activities Page2

Internships, STAFF ACHIEVEMENTS Page3

Scientist of the month page4

Mr. RAMINI.P. NYAVATHI
Asst. Professor

STUDENT'S ACTIVITIES:

The Department of Electrical and Electronics had a reason to celebrate after the declaration of JNTUK University Exam Results. Hearty congratulations to all the toppers of IV year and III year students for putting in fabulous performance at the 4-2, 3-2 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 be considered as a source of inspiration to the entire students of the department and an impetus to excellence. A big thumbs up to all the faculty members who prepared the students for such a success.

Toppers: IV-II

1	13JR5A0213	T. BALARAMA KRISHNA	88.17%	
2	12JR1A0206	KOLLI PRATHYUSHA	86.00%	
3	12JR1A0219	B. ANILKUMAR	85.33%	

Toppers: III-II

1	13JR1A0227	G. JEETHENDRA	77.47	
2	14JR5A0207	K. KISHOR KUMAR	77.20	
3	13JR1A0212	M. REVATHI	74.13	

Page-2

INTERNSHIPS PARTICIPATED:

- Four students of third year EEE have done one month **INTERNSHIP** at **"RAILWAY DIESEL LOCOMOTIVE SHED", VIJAYAWADA**
- Three students made their **INTERNSHIP** in **"THERMAL POWER PLANT, NELLORE"**

STAFF ACHIEVEMENTS:

Mr. Y. Rajesh babu attended a five day work shop on **Real Time Control of Electrical Machine Drives with DSPACE and FPGA** at VIGNAN'S UNIVERSITY, GUNTUR from 1st to 5th June 2016.

Mr. M. Pratap naik participated in the National Course on **ENERGY MANAGEMENT and ENERGY EFFICIENCY** at IIT GUWAHATI

STAFF RECRUITMENT:

- Mrs. A. Jyothirmaye has joined as Assistant Professor in our department.
- Mr. M. Amarendra, Assistant professor after successful completion of QIP programme at NIT Nagpur has rejoined in our Department

CAMPUS DRIVE:



Trigent is an early pioneer in IT outsourcing and the offshore software development business for the past 20 years.

TRIGENT visited our college on JUNE 2nd to recruit EEE & ECE final year students.

11 students were shortlisted awaiting the final selections

UP COMING EVENTS:

1. VOLTA ASSOCIATION QUIZ
2. INDUSTRIAL TOUR
3. SEMINARS

Page-3