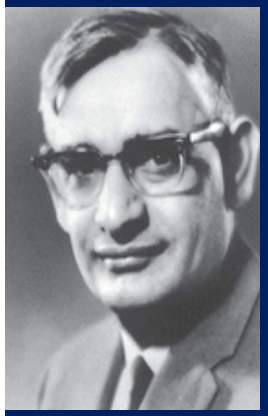
SCIENTIST OF THE MONTH:



Har Gobind Khorana (1922 -)

Har Gobind Khorana was born in Raipur, Punjab, (now in Pakistan) on 9 January 1922. His father was a patwari, a village agricultural taxation clerk in the British-Indian system of government. Har Gobind did his schooling from the D.A.V. High School in Multan. He received his B.Sc. and M.Sc. degree from the Punjab University in Lahore. Khorana lived in India until1945, when the award of a Government of India Fellowship made it possible for him to go to England and he studied for a Ph. D. degree at the University of Liverpool.

Dr. Har Gobind Khorana shared the Nobel Prize for Medicine and Physiology in 1968 with Marshall Nirenberg and Robert Holley for cracking the genetic code. They established that this code, the biological language common to all living organisms, is spelled out in three-letter words: each set of three nucleotides codes for a specific amino acid. Dr. Khorana was also the first to synthesize oligonucleotides (strings of nucleotides). Today, oligonucleotides are indispensable tools in biotechnology, widely used in biology labs for sequencing, cloning and genetic engineering.

Khorana has won many awards and honors for his achievements, amongst them the Padma Vibhushan, Membership of the National Academy of Sciences, USA as well as a Fellow of the American Association for the Advancement of Science.

KITS KKR & KSR INSTITUTE OF TECHNOLOGY & SCIENCES
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PRAJAWALAM We create the world

A NEWSLETTER FOR CIVIL ENGINEERING DEPARTMENT

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EDITOR'S VOICE:

Nanotechnology is the use of very small particles of materials either by themselves or by their manipulation to create the new large scale materials. Nanometer is a billionth of meter. Decisive material properties can be improved by introducing characteristics structures on the nano scale.

Nanotechnology in concrete: At the basics science level, much analysis of concrete is being done at the nano-level in order to understand its structure using the various techniques developed for study at that scale.

In concrete nano-particles mainly used are:

Nanotechnology and Fire protection :

Nano cement has the potential to create a new PARADIGM , in this area can be used as tough, durable high temperature coating. This is achieved by mixing carbon nano-tubes which cement material to fabricate fiber composites which results outstanding performances.

BY

K.SIREESHA

Contents:

STUDENT'S ACTIVITIES:

The Department of Civil Engineering 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 results of these students not only a best recognisation to Civil Department but also for the KKR&KSR Institute of Technology & Sciences. The faculty members play a key role to get the best results in university examinations . It is very inspirational to other students to get a best results in further examinations.

IV YEAR TOPPERS

III YEAR TOPPERS

YEAR	NAME OF STUDENT	PERCENTAGE (%)
IV	Y.NAVEEN	83.87
	S.SAI LEELA	82.27
	A.MALLIKARJHUNA RAO	80.93
III	T.SRI DIVYA	88.13
	K.GOPINADH	84.93
	SK.MOHAMMED KHALEEL	84.13

GATE 2016:

- **20 students of final year Civil have attended in GATE 2016 examinations.**

IELTS:

- **7 Students have scored above 6 in IELTS Exam held in January 2016.**
- **A final year student D. Satish Reddy (12JR1A0119) has selected in NICMAR Examinations.**

WORKSHOP:

One day workshop on Construction Practices

One day workshop is organized by a Mr.D.Srikanth working as a site engineer in one of the company. He expressed his real experience working as a site engineer in the construction field. The workshop deals with solving the various complex problems faced in construction sites.

He delivered some useful methodologies / or techniques and the real applications in day to day civil engineering activities , problems and corresponding solutions , rehabilitation techniques / solutions / how to solve the real problems in the construction field.

Civil engineering construction activities and real problems come across and how to rectify / solve the problem immediately in the field.

Finally the students are asked number of doubts in the construction field and he clarify the doubt each and every question to students effectively.