

# NITK NEWS LETTER

# WAVES

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National Institute of Technology Karnataka, Surathkal  
Mangalore - 575 025, Karnataka, India





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**ADMINISTRATIVE APPOINTMENTS:**

• **Director MNIT Jaipur: Prof. Udaykumar R. Y.** has been appointed as Director at MNIT, Jaipur w.e.f October 13, 2016. We wish him very best of success in his future endeavours as an inspirational leader and motivator.

• **Dean (Research & Consultancy): Dr. Ananthanarayana VS**, Professor, Department of Information Technology, NITK has been appointed as Dean (Research & Consultancy) with effect from September 01, 2016. He brings an impressive track of research & leadership. We welcome Dr. Ananthanarayana VS to the position.



We thank **Prof. K. Chandrasekaran**, Department of Computer Science & Engineering for his sincere efforts as Dean (**Research & Consultancy**) from September 1, 2013 to August 31, 2016.

• **Dean (Alumni Affairs & Institutional Relations): Dr. Prasad Krishna**, Professor, Department of Mechanical Engineering, NITK has been appointed as Dean (**Alumni Affairs & Institutional Relations**) with effect from 01.09.2016. He brings an impressive history of academic leadership and management. We welcome Prof. Prasad Krishna to the position.



We thank **Prof. K. Chandrasekaran**, Department of Computer Science & Engineering for his sincere efforts as Dean (**Alumni Affairs & Institutional Relations**) i/c from May 15, 2016 to August 31, 2016.

• **Dean (Students' Welfare): Dr. S.M Hegde**, Professor, Department of Mathematical and Computational Sciences, NITK has been appointed as Dean (**Students' Welfare**) with effect from October 7, 2016. We welcome Prof. S.M Hegde to this position.





We thank **Prof. Udaykumar R. Y.**, Department of Electrical & Electronics Engineering for his sincere efforts as Dean (Students' Welfare) from October 8, 2013 to October 6, 2016. He has always motivated the students to excel in domains like cultural activities, sports, competitions and also encouraged the students to support societal responsibilities

• **Professor i/c (Hostel Affairs): Dr. Chitharanjan Hegde**, Professor Department of Chemistry, NITK has been appointed as the Professor i/c (Hostel Affairs) with effect from January 18, 2017. We welcome Prof. Chitharanjan Hegde to this position.



We thank **Lt. Vasudeva Madhav**, Department of Mechanical Engineering for his sincere efforts as Faculty i/c (Hostel Affairs) from April 08, 2016 to January 17, 2017.

We thank **Prof. Narendranath S.**, Department of Mechanical Engineering for his sincere efforts as Professor i/c (Hostel Affairs) from April 01, 2014 to March 31, 2016.



• **Faculty i/c (Security Affairs): Dr. P Sam Johnson**, Department of Mathematical & Computational Sciences has been appointed as Faculty i/c (Security Affairs) w.e.f May 23, 2016. We welcome him to this position.

**AWARDS & ACHIEVEMENTS OF STUDENTS:**

Sl. No.	Department	Name of the student	Semester and Programme	Awards and achievements
1.	Mining Engineering	Arra Kumar	B. Tech, 8 <sup>th</sup> Semester	NCC-C Certificate
2.	Mining Engineering	Uma Mahesh	B. Tech, 8 <sup>th</sup> Semester	NCC-C Certificate
3.	Mining Engineering	Ramiz Hussain	B. Tech, 8 <sup>th</sup> Semester	Winner of National Level Robotics National Level GE Edison Ideathon Finalist Qimpro Ideathon runner-up
4.	Mining Engineering	Raj Kumar	B. Tech, 8 <sup>th</sup> Semester	National Level Boxing
5.	Mechanical Engineering	Veer Alakshendra Guide : Dr. S M Murigendrappa	B. Tech, 8 <sup>th</sup> Semester	Best Paper award at WCEA – 2016, Thailand. 16-17 December 2016
6.	Mechanical Engineering	S. Balaji Guider : Dr. N. Gnanasekaran	M.Tech, 4 <sup>th</sup> Semester	Best paper award at Int. conference on systems, energy and environment, 5-6 August 2016, Govt. College of engineering Kannur, Kerala.
7.	Mechanical Engineering	G. Kiran Kumar and S. Saboor Guide : Prof. T P Ashok Babu	PhD, 10 <sup>th</sup> semester	Best paper award at Int. conference on advancements in aeromechanical materials (ICAAMM-2016) MLRIT Hyderabad, 7-9 July 2016
8.	Metallurgical & Materials Engineering	Sharath P.C	PhD, 4 <sup>th</sup> semester	Awarded first for oral presentation in processing automotive materials at the 70 <sup>th</sup> annual technical meeting of the IIM (NMD-ATM 2016) held at IIT Kanpur

Sl. No.	Department	Name of the student	Semester and Programme	Awards and achievements
9.	Metallurgical & Materials Engineering	Sharath P.C	PhD, 4 <sup>th</sup> Semester	Awarded second prize in vigilance awareness program organised by SBI Surathkal held at NITK campus
10.	Metallurgical & Materials Engineering	Nikhil Chaurasia	M.Tech, 2 <sup>nd</sup> Semester	1 <sup>st</sup> prize in Freshers Cup Basketball Tournament
11.	Metallurgical & Materials Engineering	Bhagat Chaitanya N	M.Tech, 2 <sup>nd</sup> Semester	1 <sup>st</sup> prize in Freshers Cup Basketball Tournament
12.	Information Technology	Mr. Aswin T S Guide : Prof. Ram Mohan Reddy	4 <sup>th</sup> Semester, PhD	Best Paper Award, IEEE International Conference on UPCON-2016, IIT BHU, Dec. 9-11, 2016
13.	Information Technology	Medhini Narasimhan	8 <sup>th</sup> Semester, B. Tech,	Best poster paper award for "Predicting Symptom Severity and Contagiousness of Respiratory Viral Infections", (DOI: 10.7490/f1000research.1112564.1) Best Poster Award ISMB-SCS.
14.	Information Technology	Manjunath K Vanahalli Guide : Dr. Nagamma Patil	PhD, 6 <sup>th</sup> Semester	Second Best Paper Award in 3 <sup>rd</sup> IEEE International Conference (UPCON-2016) held at IIT-BHU, Dec. 9-11, 2016
15.	Electronics and Communication Engineering	Kartik Samtani Saurabh Sachan	BTech, 6 <sup>th</sup> Semester	First prize at BOSCH Hackathon 2016, Bangalore
16.	Electrical & Electronics Engineering	Swaroop Kishna Singh	M.Tech, 4 <sup>th</sup> Semester	POSOCO Awards 2017 – 5 <sup>th</sup> Place
17.	Electrical & Electronics Engineering	Santosh V. Singh	M.Tech, 4 <sup>th</sup> Semester	POSOCO Awards 2017 – 8 <sup>th</sup> Place



Sl. No.	Department	Name of the student	Semester and Programme	Awards and achievements
18.	Electrical & Electronics Engineering	Nitesh Ganesh Bhat	M.Tech, 4 <sup>th</sup> Semester	POSOCO Awards 2017 – 23 <sup>rd</sup> Place
19.	Chemical Engineering	Kishore Kumar	4 <sup>th</sup> Semester, PhD	Best Paper Award in CHEMCON 2016
20.	Chemical Engineering	Kezia Buruga	7 <sup>th</sup> Semester, PhD	Best Paper Award in CHEMCON 2016

*Note: This is not an exhaustive list*



**Kartik Samtani and Saurabh Sachan, Winners of Bosch Hackathon Contest, 2016**

#### **AWARDS & ACHIEVEMENTS OF FACULTY MEMBERS:**

Sl. No.	Name of faculty	Department	Award
1	Dr. K S Babu Narayan	Civil Engineering	Best Constructor Award from ACCE Mangalore Centre
2	Dr. M Aruna, Associate Professor	Mining Engineering	Nominated as a member of District Level Environmental Appraisal Committee (DEAC) for Udupi and Karwar Districts

Sl. No.	Name of faculty	Department	Award
3	Prof. P Mohanan	Mechanical Engineering	2015 JMST best paper award December 15, 2016
4	Dr. Darshak R Trivedi	Chemistry	JSPS Bridge fellowship-2016 Award (JAPAN Society for the Promotion of Science, Japan) to strengthen the researchers network and bilateral scientific collaboration between two countries.
5	Dr. A.O Surendranathan	Metallurgical & Materials Engineering	“Life Time Education Achievement Award “by the International Institute of Education & Management, Delhi
6	Dr. A.O Surendranathan	Metallurgical & Materials Engineering	Global Teacher Role Model Award 2016/ ‘Global Hall of Fame Teacher Award’ by MVLA Trust (Non-Govt. Organisation), Mumbai.
7	Prof. G Ram Mohana Reddy	Information Technology	Senior Member of ACM, USA (September, 2016)
8	Prof. G. Ram Mohana Reddy	Information Technology	Best Paper Award, IEEE Int. Conf. on UPCON-2016, IIT BHU, Dec. 9-11, 2016
9	Dr. Sowmya Kamath S	Information Technology	Best paper award for “A Quality- centric Scheme for Web Service Ranking using Fuzzified QoS Parameters” at 2016 International Conference on Advanced Computing, Networking, and Informatics [ ICACNI-2016], September 22-24, 2016 (ACM Kolkata Chapter-ICACNI 2016 Best Paper Award in Networking track)
10	Dr. Raj Mohan B.	Chemical Engineering	Nuffic Netherlands Fellowship Programme Award
11	Dr. Jeny Rajan	Computer Science & Engineering	Young System Scientist award

**Note: This is not an exhaustive list**

**GIAN COURSES CONDUCTED:****ENGINEERING ANALYSIS AND DESIGN OF RIGID PAVEMENTS**

The programme was conducted during July 25-29, 2016. The course was taught by Dr. Neeraj Buch, Professor in the Department of Civil and Environmental Engineering, and Associate Dean for Undergraduate Studies in the College of Engineering at Michigan State University. The course provided state-of-the art information regarding the analysis and design of jointed concrete pavements. The following topics were covered with a total of 20-hours of contact:

1. Overview of Portland Cement Concrete Pavements (PCCP)
2. PCCP Distress and the Design Process
3. Overview of AASHTO'93
4. PCC Materials and PCCP Design
5. PCCP Responses to Environmental and Traffic Loading
6. Element of Design for Jointed PCCP Design
7. PCA Design for Jointed PCCP
8. PAVEMENT ME for Jointed PCCP
9. Elements of Joint Design
10. Construction of PCCP Pavements.

Course received overwhelming response from the participants, majority of whom recommended this course with enthusiasm.

## Novel Functional Materials for Energy Conversion



The programme was organised during October 04 – 10, 2016 co-ordinated by Prof. Airody Vasudeva Adhikari. In the program, Prof. Prashant V. Kamat (Guest faculty), Professor in Department of Chemistry and Biochemistry, University of Notre Dame, USA, an internationally acclaimed expert with proven knowledge, experience and skills in research, teaching as well as training, delivered sixteen lectures and discussed about the issues related to his areas of research with participating researchers/scientists. The short term course was planned and offered to the participants as per the norms set by GIAN, MHRD.

Altogether 135 participants actively took part in this short-term course. Out of which 28 are external candidates and 107 are internal candidates. Among the participants, 12- faculty, 74-Ph.D. students, 16 - M.Tech. students, 24 - M.Sc. students, 9 - B.Tech. students of various discipline not only from our Institute but also from other Institutes spread all over India.

### **An introduction to engineering: Simple ideas – major impact**



**“An introduction to engineering: Simple ideas – major impact”** was organised during August 01-05, 2016. This course was delivered by Prof. Sandeep Gupta, Chairman, Dept. of Electrical Engineering Systems, Viterbi School of Engineering, Univ. of Southern California, Los Angeles, USA.

The goal of this course was to introduce students to the power of ideas in engineering. In particular, this course introduced students to simple ideas such as ***pipelining, feedback, compression, and the law of large numbers***, each of which has made a major impact on multiple areas of engineering. The instructor posed everyday problems and guided discussions that enabled students to re-discover ideas that have had a major impact on multiple areas of engineering. The course had theory and laboratory components (totally 24 hours) and was attended by more than 120 undergraduate students.

#### Other GIAN Courses conducted:

Sl. No.	Title	Expert	Duration	Co-ordinator
1.	Offshore Renewable Energy (Wave, Wind and Tidal Energy)	Prof. Tomoki Ikoma is Professor at the Department of Oceanic Architecture and Engineering, College of Science and Technology, Nihon University, Japan	November 07-11, 2016	Dr. Debabrata Karmakar
2.	Geo statistical Analysis of Environmental Data	Dr. Pierre Goovaerts, Chief Scientist, Bio-Medware Inc., Courtesy Associate Professor, Soil and Water Science Department, University of Florida, USA	December 05-09, 2016	Dr. Amba Shetty
3.	Materials in Advanced Applications And Products	Prof. Rajan Ambat, Technical University, Denmark	July 11-15, 2016	Dr. A. O. Surendranathan
4.	Hybrid Composites: Manufacturing, Mechanics and Materials. Foreign Faculty:	Dr. Pavana Prabhakar, Univ. of Texas at El Paso, USA.	December 18-22, 2016	Dr. M. R. Doddamani, Dr. Narendranath S Mechanical engineering
5.	Parameter estimation in science and engineering: models and measurements. Foreign Faculty:	Prof. Denis Maillet, Université de Lorraine, France.	December 12-16, 2016	Dr. N. Gnanasekaran, Mechanical engineering
6.	Inverse heat transfer Foreign Faculty:	Prof. Helcio Rangel Barreto Orlande, Brazil	November 07-11, 2016	Dr. N.Gnanasekaran, Mechanical engineering

Sl. No.	Title	Expert	Duration	Co-ordinator
7.	Transfer Function Based on Green's Function Method (TFBGF) to Solve Inverse Heat Conduction problem (IHCP): Manufacturing Process	Prof. Gilmar Guimarães, Federal University of Uberândia, School of Mechanical Engineering, Brazil	November 07-11, 2016	Dr. N. Gnanasekaran, Mechanical engineering



*Geo statistical Analysis of Environmental Data*



*Offshore Renewable Energy*

**14<sup>TH</sup> ANNUAL CONVOCATION (NOVEMBER 12, 2016)**



The 14<sup>th</sup> Annual Convocation was held on November 12, 2016 (Saturday). Mr. Shivakumar D., Chairman and CEO, PepsiCo India Holdings Pvt. Ltd. was the Chief Guest. The distribution of graduands are as follows:

Programme	Boys	Girls	Total
B.Tech	688	144	802
M.Tech	389	155	544

Programme	Boys	Girls	Total
M.Tech Research	16	6	22
MBA	29	8	37
MCA	74	16	90
MSc.	14	31	45
PhD	41	16	57
<b>Total</b>	<b>1251</b>	<b>376</b>	<b>1597</b>

## ENGINEER 2016



Launched on the eve of October 20, 2016 by Dr. Shubha V, Chief Scientist, CSIR Technical and Business Consultant, Engineer 2016 promised to be the best chapter so far, as was unveiled in the next three days. There were events dedicated to all branches of engineering and technology. Where on one hand the Mechanical events ranked as the largest crowd pullers owing to the tenacity of track lovers in 'Velocity' and the skilled *Wrights* in 'Wright flight', on the other hand, the Computer events were also the most awaited ones. Coders brainstormed unexhausted for long hours through 'Marathon', and ECTF (jeopardy style Capture the Flag). The 'Chemical breakdown', 'Sem Tem Expo' and 'Meta Magic' organized as part of Chemical and Materials Events were a brilliant insight into the very simple, yet complex world that we live in. The Civil Events like Nirvahana and Colossus, organized in collaboration with ASCE, provided the platform to unfurl one's ideas and actions on the effective utilisation of natural resources. When it comes to efficient conservation, Engineers play a significant role in paving a way to the same. The SCE, Socially Conscious Engineering was an effort put forward with this very thought. Its flagship event, the Umbrella Walk, aimed at spreading awareness on clinical depression. Engineer was also host to the finest intelligent brains that *think, create and engineer* their ideas into exceptional realities. Technites, the Tronix & Astro events are outstanding examples of this. The Workshops in the varied spectra like IoT, Brainwave Robotics, 3D printing etc., provided with opportunities to develop to the best from basics. Engineer also hosts a wide array of non – technical events. The Zakir Khan Show on the 20th October left the audience in stitches and the sensory extravaganza displayed by the Laser Show the next night transported beyond the transcendent as each one tapped to the music of light. The last day saw students dancing to the beats of DJ Pearl, the tempo that she set truly concluded the night at a high note.

**IMPRINT PROJECTS SANCTIONED**

Sl. No.	Faculty Name (Principal Investigator/ Co-ordinator)	Project Title	Grant (INR in Lakhs )	Department
1.	Arun Kumar Thalla	Small Scale and Sustainable Household Wastewater Recycling S3HWR	242.16	Civil
2.	PI: Hemanth Kumar, Co-PI(s): C. Sujatha, K.V.Gangadharan, Sharnappa J., Mohd.Rizwan Rahman,	Development of Cost Effective Magneto-Rheological (MR) Fluid Damper in Two wheelers and Four Wheelers Automobile to Improve Ride Comfort and Stability	355.00	Mechanical
3.	PI - Dr. Jeny Rajan, Co-PIs - Dr. Shashidhar G Koolagudi, Dr. Abhishek Kothari	Retinal cysts identification and quantification from low SNR optical coherence tomography scans using image processing techniques.	33.5	Computer Science & Engineering

**Visits by NBA team**

NBA team visit for 10 programmes out of 18 eligible PG programmes took place in two slots during September 23-25, 2016 and November 04-06, 2016. All the 10 M.Tech programmes (Marine Structures, Structural Engineering, Chemical Plant Design, Materials Engineering, Thermal Engineering, Industrial Pollution Control, Water Resource Engineering & Management, Process Metallurgy, Geotechnical Engineering and Manufacturing Engineering) got accredited for maximum feasible period of 5 years by NBA. NBA team visit of remaining 8 programmes are scheduled to take place soon.

**Note: All the 9 B.Tech. Programmes have been accredited by NBA for a maximum feasible period of 5 years w.e.f. July 01, 2014.**

**Workshops & Conferences Organised:**

S.No.	Department	Title	Workshop/Conferences/ STTPs/Expert Lecture	Chief Guest/ Resource Person	Date
1.	Applied Mechanics and Hydraulics	Satellite Remote Sensing based Societal Applications	Workshop	Dr. G. Jagadeesh, Professor, Dept. of Aerospace Engineering, IISc., Bengaluru	June 30, 2016



2.	Electronics & Communication Engineering	Embedded Systems	Workshop	Dr. Gunar Schirner, Associate Professor Dept. of Electrical and Computer Engineering, North eastern University, Boston, USA	August 17- 18, 2016
3.	Applied Mechanics and Hydraulics	MIKE21 software	Training programme	Dr. Susant Kumar Misra, Sr. Marine Engineer & Mr. Jinesh Kumar V from the Academy, DHI, New Delhi	August 22- 26, 2016
4.	Civil Engineering	Asian Lecture Series	Lecture Series	Prof. M. R. Madhav, IITH Prof. M.S. Mohan Kumar, IISc, Prof. R. Shivashankar, Prof. N. Lakshman Prof. K. Venkataramana Prof. Sitaram Nayak Dr. B. B. Das and Dr. B. Manu Prof. T. Hino Prof. Y. Mishima and Prof. N. Mishima (Saga Univ. Japan) Prof. V. Panich (KMIT, Bangkok, Thailand)	September 11-18, 2016
5.	Civil Engineering	International Symposium on Lowland Technology	ISLT 2016	Prof. M. R. Madhav from IITH Prof. N. Mishima, Prof. J. C. Chai, Prof. T. Hino (all from Saga Uni. Japan) Prof. D. T. Bergado, Prof. Suksun H. (all from AIT Bangkok, Thailand) Prof. Tri Harianto (from Indonesia) Prof. G. L. Sivakumar Babu, Prof. M. Sekhar, Prof. M. S. Mohan Kumar (all from IISc Bangalore) Prof. J. P. Walker from Monash Uni., Australia	September 2016

				Prof. J. T. Shahu from IITD Dr. U. K. Guruvittal from CRRI Delhi Prof. R. Shankar from M'lore Uni. Prof. A. V. Hegde from NITK	
6.	Civil Engineering	Solid Waste Management	Expert Lecture	Dr. Sivakumar Babu Indian Institute of Science, Bangalore	September 2016
7.	Computer Science & Engineering	Consolidation & Virtualization of Server Infrastructure	Lecture cum demo session	Mr. Anantha Raghava from Ezatech Consulting Services & Solutions, Bangalore	September 16, 2016
8.	Electronics & Communication Engineering	Visual TCAD	Training Program	M/s Cadre Design Systems	September 22-23, 2016
9.	Mechanical Engineering	Computational Dynamics	Workshop	Prof. A. Seshadri Sekhar, Dr. RarnjiM., Dr. Praveen Krishna	September 26-27, 2016
10.	Applied Mechanics and Hydraulics	Rainfall Run off-Modelling	Workshop	Dr. Venkatesh, Scientist, NIH Belgum	September 26-30, 2016
11.	Mechanical Engineering	Advanced Materials and Manufacturing	Workshop	Dr. Dirk Lehmus, University of Bremen, Bremen, Germany; Prof. B. Ravi, IITB; Prof. N V Ravikumar, IITM; Prof. Somshekhar, IITM; Prof. Velmurugan, IITM; Prof. S. Natarajan, IITM; Prof. Hariharan, IITD	September 28-30, 2016
12.	Chemical Engineering	Nano-Structure materials and their applications in Catalysis and fuel cells	Workshop	B Mahipal Reddy	September 29, 2016
13.	Chemical Engineering	Nanostructured materials and their applications in Catalysis and Fuel Cells (NMCF-2016)	Workshop	Prof. K.N. Lokesh	September 29, 2016 – October 01, 2016
14.	Electronics & Communication Engineering	Linear Integrated Circuits - A System Approach	Workshop	Ms. Manjit & Ms. Mridula (Texas Instruments)	September 30, 2016 - October 01, 2016

15.	Civil Engineering	Sustainable Urban Transportation	Workshop	Prof.T.G.Sitaram (Indian Institute of Science, Bangalore ) Prof.Gopal Patil (Indian Institute of Technology, Bombay) Prof.Akhilesh Mourya (Indian Institute of Technology, Guwahati)	October 03, 2016
16.	Civil Engineering	Advanced Technologies for Waste Management	Workshop	Dr. Alappat B J , IIT Delhi Dr. Anurag Garg, IIT Bombay. Dr. Chanakya H N, IISc Bangalore. Dr. Gangagni Rao, Indian Institute of Chemical Technology (IICT), Hyderabad. Dr. Manoj K. Tiwari, IIT Kharagpur Dr. Thirumurthi G, Central Pollution Control Board, Bangalore.	October 6-8, 2016
17.	Applied Mechanics and Hydraulics	Coastal Hydrodynamics and modelling	Workshop	Dr. R. Balaji, IIT, Bombay Dr. V Sriram, IIT Madras Dr. M Behera, IIT, Bombay	October 07, 2016
18.	Metallurgical & Materials Engineering	Friction Based Joining Techniques: Prospects	Workshop	Dr. G. Madhusudhan Reddy, Distinguished Scientist, DMRL	October 15, 2016
19.	Applied Mechanics and Hydraulics	Microwave Remote Sensing	Workshop	Dr. Y. S Rao, Professor, Centre of Studies in Resources Engineering (CSRE), IIT Bombay & Mr. Vineet Kumar, Research Scholar, Centre of Studies in Resources Engineering(CSRE), IIT Bombay	October 17-18, 2016
20.	Metallurgical & Materials Engineering	Materials Processing & Degradation	Workshop	Prof. V. S. Raja, IIT, Bombay	October 17-18, 2016
21.	Computer Science & Engineering	Software Mining and Analysis	A GIAN (Global Initiative of Academic Network) (MHRD, Govt. of India) supported	Dr. David Lo, Assistant Professor in School of Information Systems,	October 17-21, 2016

			Advance Level Course	Singapore Management University.	
22.	Mechanical Engineering	Tribology Frontiers in Design and Manufacturing Coordinators: Dr. RameshM.R., Dr. Srikanth Bontha and Dr. Chakradhar D	Workshop	Dr. Vamsi Krishna Balla, Prof. M.S. Bobji, Dr. Chakradhar Byreddy	October 24-26, 2016
23.	Computer Science & Engineering	Information Security & Cryptography (ISC'16)	Workshop	Prof. Bimal K Roy Professor and Former Director, ISI Kolkata	October 24-28, 2016
24.	Computer Science & Engineering	Cloud Computing application setup: A simple industry approach	Expert lecture	Mr. Nagaraja Sundaresan, Applications Developer, ORACLE, Bangalore	November 2, 2016
25.	Electronics & Communication Engineering	Control and Guidance of Guided Missiles	Expert Lecture	Dr. Abhijit Bhattacharya Scientist-G, Air Defence, DRDL, Hyderabad	November 04, 2016
26.	Electronics & Communication Engineering	MSP530 Embedded Systems platform	Workshop	Mr. Abdul Samad & Mr. Akhil M/s Sapienlearning, Bangalore, TI University partner	November 5-6, 2016
27.	Computer Science & Engineering	Practical Biological Signal Analysis	A GIAN supported Advance Level Course	Dr. Palaniappan Ramaswamy, University of Kent, U.K	November 21-25, 2016
28.	Mechanical Engineering	Mechanobiology: A new frontier for mechanical engineers Co-ordinators: Prof. KV Gangadharan, Dr. Arun M and Dr. Ranjith	Expert lecture	Dr. Prabhakar Ranganathan, Monash University, Victoria, Australia	December 02, 2016
29.	Electronics & Communication Engineering	Discussion about joint collaborative opportunities between NITK and USC. He is the key person for initiating	Visit	Prof. Cauligi Raghavendra Professor ECE & Vice Dean, Global Academic Initiatives, Univ. of Southern California, Los Angeles	December 14, 2016

		academic/research activities and support funded projects under IUSSTF between USC and many Indian universities			
30.	Computer Science & Engineering	Pervasive And Mobile Computing	Deity, HRD division, Ministry of ICT, Govt. of India sponsored Faculty Development Programme (FDP)	Dr. Nakkeeran, ECE, Pondy. University, Dr. John Jose, IIT Guwahati	December 5-14, 2016
31.	Chemical Engineering	Beyond Oil & Gas: The Methanol Economy	Expert Lecture	Prof. G. K. Surya Prakash, Loker Hydrocarbon Research Institute, University of Southern California, Los Angeles.	December 27, 2016
32.	Chemical Engineering	Fluorine, A small atom with a big ego: from materials to medicine.	Expert Lecture	Prof. G. K. Surya Prakash, Loker Hydrocarbon Research Institute, University of Southern California, Los Angeles.	December 28, 2016

*Note: This is not an exhaustive list*

### FEW GLIMPSES OF WORKSHOPS CONDUCTED



**Coastal Hydronamics & Modelling**



**Microwave Remote Sensing**



**ISLT 2016**



**Valedictory Function of the two-day workshop on “Linear Integrated Circuits - A Systems Approach” by resource persons from Texas Instruments/ Sapience Consulting**

**Faculty/Staff retirement**

Sl. No.	Name & Designation	Department	Date of Joining	Date of Retirement
1	Narayan Naik K, Senior Assistant	Accounts - III	20.05.1981	31.07.2016
2	Jagadish, Assistant Executive Engineer	Applied Mechanics & Hydraulics	27.06.1980	31.08.2016
3	Jayasheela Shettigar, Senior Attendant	Library	30.11.1977	30.09.2016
4	Yogeesha Shetty, Attendant	Hostel	18.11.1985	31.10.2016

**Government Initiatives and Schemes adopted:**

- **Swachta Pakhwada** programme was conducted on September 03, 2016.
- Use of **e-payment** mechanism are being encouraged in the campus. All the administrative units are now having electronic payment accessibility.

**INDO SOUTH AFRICA PROJECT**

A Joint research project between Dr. Prasanna B.D, Department of Chemical Engineering, NITK and Dr. Antoinette P. Malan of Stellenbosch University, South Africa has been approved for funding by DST, Govt. of India.

**About the project:** The project is being implemented under the framework of the agreement on scientific and technological cooperation between the governments of the Republic of India and the Republic of South Africa. A grant of ₹ 28,16,230/- has been sanctioned for this collaborative research project entitled “*In vitro* mass culture of *Steinernema jeffreyense*, a biocontrol agent against key insect pests” by Department of Science.

**INDO-FRENCH PROJECT**

**Project Title:** GreyWatNet: Network on Decentralized Grey / Waste Water Treatment & Recycle

**Funding Agency:** CEFIPRA (Indo-French Centre for the Promotion of Advanced Research)

**Grant Sanctioned:** ₹ 36.00 Lakhs

**PI:** Dr. Arun Kumar Thalla

**G-16 CONFERENCE**

The G-16 conference organized by UNSECO-IHE has served as an open forum for the presentation and discussion of the latest research results on varied topics of Chalcogen in living systems, industry and



environment. This conference is specifically devoted to explore and introduce the world to the latest advancements of Chalcogen-based research, from a science, engineering, health and environment perspective. G-16 Asian 5th International Conference on Research Frontiers in Chalcogen Cycle Science & Technology was held for the first time in India at Goa during December 19-21, 2016 to target the Asian researchers. The conference was organized by UNESCO-IHE and NITK Surathkal in association with BITS Pilani- Goa and IIT Guwahati. The inaugural of the conference was performed by Shri. Malay Chatterjee, Chairman and Managing Director of KIOCL Ltd.

Inaugural function: From the Right- Prof. G. Srinikethan, Shri. Malay Chatterjee, Chairman cum CDM, KIOCL Pvt. Ltd., Bangalore, Prof. Gopal Mugeraya, Director NIT Agartala, Prof. Uday Kumar Yaragatti Director of MNIT, Dr. Raj Mohan B, HoD Chemical Engineering, NITK Surathkal, Prof. Swapan Bhattacharya Former Director, NITK Surathkal, Key Note Speech by Prof. Ashok. Pandey, Chairman Center of Innovative and Applied Bioprocessing (CIAB)

The conference had 4 sessions spread over for three days, which was graced by the key note lectures of dignified speakers working in the field of Chalcogen based research. Which was later on preceded by the key note lecture of Prof. Ashok Pandey where he spoke on the role of selenium as a dietary source in microalgae. He stressed on the health implications of selenoproteins as an antioxidant, thyroid metabolism, role in immune function and so on. Prof. Kannan Pakshirajan in his keynote lecture, spoke on the role of anaerobic granular sludge in converting CO to methane and carbon dioxide as the main products. Further Prof. Piet Lens highlighted on the biomineralization of metals, metalloids and rare earth elements and its potential biotechnologies in bioremediation and wastewater treatment. Finally Prof. Venkata Mohan provided insight on the Microbial electrochemical systems (MES) which are the emerging sustainable technological platform, due to its inherent ability to treat waste, produce bioenergy and recover value added products. The credits for the successful completion of the conference goes to the 50 participants, who presented their work based on the 5 themes which were i) Production, properties & interactions of chalcogen compounds ii) (Bio) conversion, speciation of chalcogens iii) Chalcogens and the role of metals in the environment Emerging application areas iv) (Bio) reactor systems v) Recovery of chalcogens and metals from waste. The participants presented significant progress in the field of chalcogens which paved way for new ideas and possibilities.

#### PLACEMENT % DURING THE YEAR 2016-17

Data as on 30.01.2017			
BRANCH	ELIGIBLE STUDENTS	PLACED	% PLACED
<b>UG (B.Tech)</b>			
CIVIL ENGINEERING	83	38	46
CHEMICAL ENGINEERING	31	26	84
COMPUTER SCIENCE & ENGINEERING	92	91	99



ELECTRONICS & COMMUNICATION ENGINEERING	92	80	87
ELECTRICAL & ELECTRONICS ENGINEERING	86	67	78
INFORMATION TECHNOLOGY ENGINEERING	88	83	94
MECHANICAL ENGINEERING	132	90	68
METALLURGICAL & MATERIALS ENGINEERING	29	18	62
MINING ENGINEERING	36	17	47
<b>Total B.Tech</b>	<b>669</b>	<b>510</b>	<b>76</b>
<b>PG (M.Tech)</b>			
<b>CIVIL</b>			
STRUCTURAL ENGG.	25	3	12
GEO TECH ENGG	12	1	8
ENVIRONMENTAL ENGG.	23	4	17
TRANSPORTATION SYSTEMS ENGG.	21	0	0
CONSTRUCTION TECHNOLOGY & MGMT	24	0	0
<b>APPLIED MECHANICS &amp; HYDRAULICS</b>			
MARINE STRUCTURES	16	0	0
WATER RESOURCES ENGG & MGMT	11	0	0
REMOTE SENSING & GIS	9	1	11
<b>CHEMICAL ENGINEERING</b>			
INDUSTRIAL POLLUTION CONTROL	10	4	40
CHEMICAL & PLANT DESIGN	6	0	0
INDUSTRIAL BIOTECHNOLOGY	12	2	17
<b>COMPUTER SCIENCE &amp; ENGINEERING</b>			
COMPUTER SCIENCE & ENGG.	22	19	86
INFORMATION SECURITY	21	19	90
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b>			
VLSI	22	6	27
COMMUNICATION ENGG	26	7	27
<b>ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>			
POWER & ENERGY SYSTEM	16	0	0
<b>INFORMATION TECHNOLOGY</b>			
INFORMATION TECHNOLOGY	16	16	100

<b>MECHANICAL ENGINEERING</b>			
THERMAL ENGG	14	5	36
MANUFACTURING ENGG	11	1	9
MECHATRONICS	26	5	19
DESIGN AND PRECISION	15	4	27
<b>METALLURGICAL &amp; MATERIALS ENGINEERING</b>			
PROCESS METALLURGY	7	0	0
MATERIALS ENGG.	19	3	16
NANOSCIENCE AND NANOTECHNOLOGY	6	1	17
<b>MATHEMATICAL &amp; COMPUTATIONAL SCIENCES</b>			
COMPUTATIONAL MATHEMATICS	13	6	46
<b>Total M.Tech</b>	<b>403</b>	<b>107</b>	<b>27</b>
<b>PG</b>			
MCA	82	57	70
MBA	33	1	3
M.Sc.(CHEMISTRY)	15	2	13
M.Sc.(PHYSICS)	9	1	11
<b>Total</b>	<b>Eligible Students</b>	<b>Placed Students</b>	<b>Total Percentage Placed</b>
	<b>1211</b>	<b>678</b>	<b>56</b>
<b>Total Companies Visited - 180</b>		<b>Maximum Salary Rs.25.00 LPA</b>	

#### UPCOMING EVENTS

- **Department of Mining Engineering**
  - A workshop on "Recent trends in Environment, Health and Safety Management in Mining and other Core industries" is scheduled to be held on January 27-28, 2017.
  - Workshop on "Minerals Beneficiation" is scheduled to be held during February 20-21, 2017.
- **Department of Civil Engineering**  
TEQIP-II-sponsored National Workshop on **Design and Development of Sustainable Concrete in the Era of Global Warming** is scheduled to be conducted during Jan 9-10, 2017.
- **Department of Mechanical Engineering**  
Two-day workshop on Bio Fluid dynamics and Bio heat transfer, scheduled to be held February 20-21, 2017.
- **Department of Chemistry**  
M.Sc. Chemistry students are organizing a national level chemistry fest Uthkhanan 2017 on February 25, 2017 in the Department of Chemistry.
- **Incident 2017 (March 01-05, 2017)**
- **Crrescendo 2017 (March 24-26, 2017)**





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