# NITK NEWS LETTER



Issue No: 2

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## **Message from the Director**

Performing the opportunity to take additional charge as Director, NITK, Surathkal and also, I would like to thank Prof. Swapan Bhattacharya (Former Director) for his endeavours and support to the Institute. The ultimate goal of the Institute is to prepare each student to meet life's challenges with strong knowledge base, supported by wisdom, ethical values, good decision making skills, respect for all life and above all strong commitment to the society. It gives me immense pleasure to release the second revived version of Institute News Letter "Waves". The idea behind publishing Waves is to create awareness on the significant activities and developments carried out both at Institute as well as at department level. I also take this opportunity to wish all the members of the NITK family, the best in their future ventures and wish NITK to accomplish as one of the leading Technological Institute. I also congratulate the entire editorial team for bringing out this edition of "Waves" with all the information to showcase the Institute.

Dr. Srinivasan Sundarrajan

**News** Letter

## **Editorial Team**

#### G. Srinikethan

(Professor, Department of Chemical Engineering) Coordinator

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Katta Venkatramana Dean (Academic)

**Udaykumar R.Y** Dean (Students' Welfare)

**K Chandrasekaran** Dean (Research & Consultancy)

**M.B Saidutta** Dean (Alumni Affairs & Institutional Relations)

Lakshman Nandagiri Prof. I/C (Training & Placement)

**Gaurav Chowdhury** Assistant Registrar (Academic) Co-cordinator

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## Visitor's Conference (November 04-06, 2015)



The Visitor's Conference was held on November 4 to 6, 2015 at Rashtrapati Bhawan. It included Vice Chancellors/Directors/Director General of institutions of higher learning. This is the first time such a conference brought all heads of higher education institutions together and was convened by the Hon'ble President, Sri Pranab Mukherjee. Earlier, separate conferences were held of Vice Chancellors of Central Universities, Directors of NITs, IITs, IISERs and IISc.

The agenda for the Visitor's Conference included (a) improving the quality of higher education in institutions to bring them at par with the top institutions of the world; (b) capacity development of faculty; (c) engagement of institutes of higher learning with community and society for sustainable and inclusive development and (d) promotion of gender equity and cultural inclusion through higher education.



MoU Exchange with PepsiCo India Holdings Pvt. Ltd. at Rashtrapati Bhavan during the Visitor's Conference

### **Appointment of Director**

The MHRD, GoI have entrusted the responsibility of Director NITK, Surathkal to Prof. Srinivasan Sundarrajan (Director NIT Trichy) as Director with additional charge w.e.f December 28, 2015. We are thankful to Prof. Swapan Bhattacharya (Former Director) for his guidance and support during his tenure which witnessed many transitions.

#### Some of the achievements during the last 3 years are:

S.No.	Area	2013-14	2014-15	2015-16
1.	*Recruitment of faculty	34	26	In Process
2.	Faculty Strength	227	249	248
3.	No. of ongoing sponsored projects	57	52	66
4.	Total value of ongoing sponsored projects (Crores)	36	33	42
5.	PhDs Awarded	62	60	79

\* Faculty recruited during 2012-13: 30; faculty strength during 2012-13: 196

In addition to the above mentioned points NITK, Surathkal is the only NIT with 5years accreditation by NBA for all the 9 B.Tech programmes. Also, NITK, Surathkal is the first among its kind to adopt 4-tier flexible cadre structure at all levels.

#### **CCMT - 2016**

MHRD, GoI has entrusted the responsibility of conducting Centralized counselling of M.Tech/M.Arch/M. Plan to NITK, Surathkal. The registration process is scheduled to begin from April 12, 2016 (tentative).

Earlier NITK has co-ordinated DASA scheme during its formative years from 2010 to 2014 & Central Counselling Board (CCB) in the year 2011.

#### **Admission 2015-16**

Year	Intake		Admissions									
	UG	PG	PhD	UG			PG			PhD		
				Male	Female	Total	Male	Female	Total	Male	Female	Total
2015-16	868	911	150	666	159	825	481	208	689	103	42	145
2014-15	868	911	150	636	200	836	523	244	767	91	34	125
2013-14	868	877	100	672	155	827	537	185	722	67	24	91

Note: Includes DASA, MEA, ICCR;

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. SARs of all the 18 eligible M.Tech Programmes has been uploaded. The NBA team visits are scheduled to take place soon.

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### **Orientation Programme (July 31st, 2015)**

The orientation programme is held every year for all newly admitted before the commencement of the classes. The students are introduced with the background of the Institute and departments, placement statistics and the functionaries. The programme was followed by a lunch session and a beach party.

#### **Rankings by leading survey agencies**

S.No.	Survey	All India Rank	Rank among NITs	Date
1.	Data Quest	8	1	May 31, 2015
2.	The Week	12	1	May 31, 2015
3.	Edu Rand Rankings	15	2	June 09, 2015
4.	India Today	10	1	June 29, 2015
5.	GHRDC- Top Engineering Colleges	2	1	July 2015
	of Super Excellence			
6.	Outlook	10	2	July 06, 2015

### 13th Annual Convocation (November 14, 2015)

Program	Boys	Girls	Total
B.Tech	703	95	798
M.Tech	379	120	499
M.Tech (Research)	14	15	29
МСА	61	22	83
MBA	20	08	28
MSc	13	27	40
Ph.D	54	25	79
Total	1244	312	1556

#### Students Graduated

#### Chief Guest: Prof. Kazuhiko Hasegawa

Chairman, Department of Naval Architecture & Ocean Engineering Graduate School of Engineering

Osaka University, Japan



## **Peer Tutoring**

Even 2013-14							
Торіс	Mentors				Students		
	М	F	Т	Μ	F	Т	
EC110	29	6	35	350	51	401	

Even 2014-15								
Торіс	Mentors			Students				
	М	F	Т	М	F	Т		
Analog Electronics	6	0	6	16	9	25		
Digital System Design	5	3	8	25	2	27		
Digital Signal Processing	7	0	7	32	24	56		
Embedded System and Do It Yourself Electronics	8	0	8	40	15	55		

Odd 2015-16								
Торіс	Mentors			Topic Mentors Students				
	М	F	Т	М	F	Т		
Electronic System & Simulation	4	2	6	45	21	66		
Matlab / Octave	6	0	6	58	10	68		
Python & Perl	8	1	9	61	14	75		
Sensors & Microcontrollers	9	0	9	67	23	90		

### ENGINEER (8<sup>th</sup> - 11<sup>th</sup> October, 2015)



ENGINEER 2015 was held during 8<sup>th</sup> to 11<sup>th</sup> October 2015. More than Three thousand students participated in this technical festival, which had numerous events, conducted in diverse fields of Computers, Mechanical Engineering, Material Sciences, Civil Constructions, Astronomy and Technological Management. *TEDx* conferences; is a recent edition in the ENGINEER by our students wherein luminaries coming from different spheres exchanged ideas with the participants. Some new attractions that added further colours to ENGINEER '15 were *Engi Talks* which brought forth eminent personalities from various fields to give talks that are idea based. For main shows this edition of ENGINEER had Technical DJ, Laughter night and concert by Laghori Band.

### NIT CONCLAVE (22<sup>nd</sup> - 23<sup>rd</sup> August, 2015)



NIT Conclave 2015 was held at NIT Jalandhar on 22-23 August, 2015. The theme was "INNOVATION, INTELLECTUAL PROPERTY AND STARTUP ECOSYSTEM", an attempt to encourage the innovative ideas to bloom and thrive. The NITK Surathkal team comprised of three students, Almas Parveen, Vikas Meena and Nimish Gera, bagged the "BEST NIT" award based on their presentation and the activities undertaken at the college. This is the second time that NITK Surathkal is bagging the "BEST NIT" Award out of the five editions of the conclave.

## Foreign visitors to the Institute

S. No.	Department Visited	Name of the Visitor	Organisation	Date of Visit (DD-MM-YY)
1.	Electronics & Communication Engineering	Prof. Michel Kocher	Centre d'Imagerie BioMédicale (CIBM) Genève, Switzerland	14-07-2015 to 25-07-2015
2.	Information Technology	Prof. Raghava Gowda	Professor, Dayton University	03-08-2015
3.	Metallurgical & Materials Engineering	Dr. K. V. Sudhakar	University of Montana, USA	07-08-2015
4.	Mechanical Engineering	Prof. Ramana Grandhi	Wright State University, Dayton, Ohio, USA	27-08-2015 to 28-08-2015
5.	Electronics & Communication Engineering	Prof. Prahlad Vadakkepat	Associate Professor Electrical & Computer Engineering, NUS Singapore as part of the IEEE activity	22-09-2015
6.	Applied Mechanics & Hydraulics	Dr. Hiromichi Akimoto	Professor, Dept of Neval Architecture and Ocean Engineering, Osaka University, Japan	01-10-2015
7.	Applied Mechanics & Hydraulics	Mr. Kazuhiri Lijima	Research scholar Nevel Architecture and Ocean Engineering, Osaka University, Japan	01-10-2015
8.	Applied Mechanics & Hydraulics	Prof. Tad S Murty	University of Ottawa Canada	02-11-2015
9.	Mechanical Engineering	Prof. Aleksander Zhilin	Department of Materials Science, Ural Federal University, Russia	12-11-2015
10.	Mechanical Engineering	Prof. Arcady Finkelstein	Dept. of Mechanical Engineering, Ural Federal University Russia	12-11-2015
11.	Mechanical Engineering	Prof. Jean-Bernard Michel	Professor and Head, Industrial Bioenergy Systems, HEIG-VD, SWITZERLAND	20-11-2015
12.	Information Technology	Mr. Jefrrey	Motorolo, Chikago, USA	29-12-2015
13.	Electronics & Communication Engineering	Dr. Krishna Shenai	Vice President, LoPel Corporation, Illinois, & Adjunct Professor, EECS, North Western University, USA	30-12-2015

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## **Publications**

Sl. No.	Department	National	International	National	International
		Conference	Conference	Journals	Journals
1.	Applied Mechanics and Hydraulics	3	35	-	45
2.	Chemical Engineering	05	24	-	34
3.	Chemistry	10	14	-	60
4.	Civil Engineering	03	08	17	11
5.	Computer Science & Engineering	4	65	-	20
6.	Electrical & Electronics Engineering	1	18	-	10
7.	Electronics & Communication	2	23	-	14
	Engineering				
8.	Information Technology	-	48	-	07
9.	Mathematical & Computational Sciences	-	2	-	49
10.	Mechanical Engineering	10	27	02	48
11.	Metallurgical & Materials Engg.	2	6	03	35
12.	Mining Engineering	05	04	04	04
13.	Physics	3	9	-	09
14.	School of Management	03	-	06	-
	Total	42	283	23	348

## Sponsored projects

S.No.	Department	Number of Projects	Total Sanctioned Grant (INR in Lakhs)
1.	Applied Mechanics and Hydraulics	5	319.65
2.	Chemical Engineering	9	506.45
3.	Chemistry	5	271.55
4.	Civil Engineering	6	341.7895
5.	Computer Science and Engineering	4	482.871
6.	Electrical and Electronics Engineering	4	320.05
7.	Electronics and Communication Engineering	4	162.35
8.	Mathematical and Computational Sciences	3	13.19
9.	Mechanical Engineering	15	1657.22
10.	Metallurgical and Materials Engineering	1	30.17
11.	Mining Engineering	2	18.61
12.	Physics	4	134.73
13.	School of Management	4	25.825
	Total	66	4284.45

## Department associated activities

S.No.	Activities	Department	Title	Date/Year
1.	Workshop	Computer Science & Engineering	Simulation of Wired and Wireless Networks (SWN-2015)	08-06-2015 to 10-06-2015
2.	Workshop	Information Technology	Research Issues In Green Cloud Computing	18-06-2015 to 20-06-2015
3.	Workshop	Information Technology	Human Centered Computing: Tools and Applications	25-06-2015 to 27-06-2015
4.	Workshop	Electronics & Communication Engineering	Industry Interaction to review Academic and Research Program of the Department of E&C Engg.	13-07-2015 to 14-07-2015
5.	Short Course	Electronics & Communication Engineering	Mathematical Morphology and its applications in Image Processing	14-07-2015 to 24-07-2015
6.	Expert Lecture	Computer Science & Engineering	"Cloud Computing" by Dr. Rahul Ghosh and Dr. Tridib Mukherjee, Xerox Research Center (India), Bangalore	25-07-2015 to 26-07-2015
7.	Expert Lecture	Computer Science & Engineering	Advanced Data Structure" and "Advanced Computer Architecture" by Dr. Ansuman Banerjee, Xerox Research Center (India), Bangalore	25-07-2015 to 26-07-2015
8.	CEP	Applied Mechanics and Hydraulics	Design and management of irrigation schemes	27-07-2015 to 03-08-2015
9.	Expert Lecture	Computer Science & Engineering	"Heterogeneous Computing- Research Problems" by Prof. Matthew Jacob Thazhuthaveetil, Professor, Indian Institute of Science Bangalore	30-07-2015
10.	Workshop	Civil Engineering	"Recent Trends in Piling and Ground Improvement"	31-07-2015 to 01-08-2015
11.	Workshop	Applied Mechanics and Hydraulics	Open Source Latex Software	15-08-2015
12.	СЕР	Applied Mechanics and Hydraulics	Water supply and sanitation schemes	24-08-2015 to 29-08-2015
13.	Expert Lecture	Computer Science & Engineering	"Cloud Computing", by Dr. Praveen Jayachandran, IBM, Bangalore	01-09-2015

14.	Workshop	Applied Mechanics and Hydraulics	Reef 3D : Open source CFD for Hydraulic and Coastal Engineering flow	14-09-2015
15.	National Conference	School of Management	Challenges in Banking and Capital Markets	24-09-2015
16.	Special lecture	Computer Science & Engineering	"Research issues in Image Processing and Analytics", by Dr. V. Vijayakumar, Dean, Anurag Group of Institutions	26-09-2015
17.	Special lecture	Computer Science & Engineering	"Research Directions in Networking", by Dr. Krishna V, Professor, Anurag Group of Institutions	26-09-2015
18.	Special lecture	Computer Science & Engineering	"Data Visualization" by Dr. Easwara Reddy, Vice Principal, JNTUA College of Engineering, Anantapuram	26-09-2015
19.	Short Course	Electronics & Communication Engineering	EM Theory	08-10-2015 to 12-10-2015
20.	Workshop	Mathematical And Computational Sciences	Cyberspace Security: Digital India Context	17-10-2015
21.	Workshop	Applied Mechanics and Hydraulics	Water Resources Management under changing environment	20-10-2015
22.	Expert Lecture	Computer Science & Engineering	"Introduction to Open stack and its Adaptation in IT Industry", by Mr.Ranjith Kumar N., Staff Software Engineer, EMC2 (NITK M.Tech. CSE Alumni, 2000 batch)	23-10-2015
23.	Expert Lecture	Computer Science & Engineering	"Dynamic Graph Algorithms", by Dr. Sayan Bhattacharya, Faculty in Institute of Mathematical Sciences, Chennai	23-10-2015
24.	Workshop	Computer Science & Engineering	"Cryptography, Applications and foundations of Data Science	26-10-2015 to 30-10-2015
25.	Golden Jubilee Celebration and International Symposium	Metallurgical & Materials Engineering	"Make in India – Role of Metals & Materials – 2015 (MIRMM – 2015)	30-10-2015 to 31-10-2015
26.	Workshop	Applied Mechanics and Hydraulics	Tsunami Threats and its mitigation along Indian coast	02-11-2015

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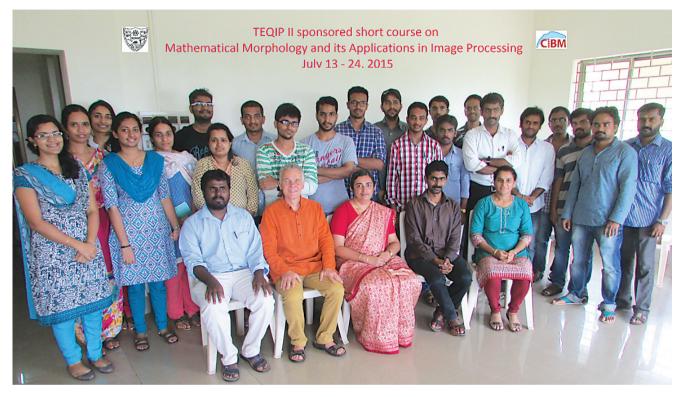
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27.	Workshop	Information Technology	Intel HPC Code Modernization	07-11-2015
27.	Workshop	intermeter recimercy	(Parallelization)	07 11 2015
28.	Workshop	Applied Mechanics and	Scientific Research – Hurdles	20-11-2015
		Hydraulics	& Solutions	
29.	Workshop	Mathematical And	Topological Dynamics	10-12-2015 to
		Computational Sciences		12-12-2015
30.	National	Mechanical Engineering	Fluid Mechanics and Fluid Power	14-12-2015 to
	Conference			16-12-2015
31.	Special	Computer Science &	"Art of innovation", Prof. Prakash	29-12-2015
	lecture	Engineering	Sai L, IIT Madras	
32.	Special	Computer Science &	"Trends in Internet of Things and	31-12-2015
	lecture	Engineering	the Business Impact", by	
			Mr.Reguraman Ayyaswamy, Vice	
			President, Engineering Services,	
			Tata Consultancy Services	
33.	International	Chemical Engineering	Advances in Chemical Engineering-	20-12-2015 to
	Conference		2015(ICACE-2015)	22-12-2015

\*Please note this is not an exhaustive list.

#### **Events organized**

#### Mathematical Morphology and its applications in Image Processing (14<sup>th</sup> – 24<sup>th</sup> July, 2015)



The short course on Mathematical Morphology and its applications in Image Processing was organized at Department of Electronics & Communication Engineering, National Institute of Technology Karnataka, Surathkal from July 14-24, 2015 jointly with School of Business & Engineering, Yverdon les Bains, (HEIG-VD) and Centre d'Imagerie BioMédicale (CIBM), Geneva, Switzerland. The objective of the course was to provide valuable inputs on advanced techniques in image processing to students and young researchers. The resource person for the course was Prof. Michel Kocher, Professor of Signal and Image Processing at the University of Applied Science HEIG-VD, Yverdon, and an affiliated Professor of Centre for Biomedical Imaging (CIBM), University Hospital of Geneva.

Forty six participants comprising of 6 Faculty, 15 PhD scholars, 12 MTech, 13 BTech students (5 - VII semester, 7 V semester and 1 - III semester) registered for the Workshop. The participants were from Depts. of E&C, CSE, E&E, Mechanical, MACS and Applied Mechanics & Hydraulics. In total there were 52 hours of theory and practice sessions spanned over 10 days. For effective learning the theory and practice sessions were mixed. The practice sessions were on Matlab and SDC morphology toolbox for Matlab. A 1.5 hour theory test and a 3hr practical examination was conducted on July 23, 2015. 27 participants took both the tests.

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The participants have rated the course and the course instructor as Excellent. It was a new experience of learning for the students & faculty as it was an intense course covering from basics to advanced to practical applications in various fields over a short span. The course was of similar rigor of a 4 credit course offered by NITK Surathkal and we strongly feel that NITK should consider such courses for credit in line with the MHRD proposal for GIAN (Global Initiative for Academic Networks). Prof Kocher also interacted with research scholars working in the area of Image processing and

has shown interest to be a co-guide for students working in the area of Biomedical Image Processing. Prof Kocher was very happy with the performance and attitude of the students and the hospitality extended by NITK. The Department hopes that we will be able to offer more such intense courses in future which will help augment our academic competency in an accelerated manner.

The Department of E&C would like to thank NITK Surathkal and TEQIP II for supporting us in organizing a very successful course.

### Expert lecture on Renewable Energy (September 27 – October 2, 2015)



Professor Hiromichi AKIMOTO (Center for the Advancement of Research and Education Exchange Networks in Asia, Osaka University, Japan) and Professor Kazuhiro IIJIMA (Department of Naval Architecture and Ocean Engineering, Osaka University, Japan) visited NITK during September 27 – October 2, 2015 for research interaction with faculty and students and for delivering expert lectures. Both these faculty are experts in the field of Renewable Energy and delivered lectures on offshore turbines for generation of wind energy. The entire program was funded by TEQIP II.

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### **International Summer University-2016**



International Summer University- 2016 was held during February 19th to March 3rd, 2016 at National Institute of Technology Karnataka, Surathkal. School of Management, NITK, Surathkal partnering with University of Applied Sciences Western Switzerland, School of Business and Engineering Vaud (HEIG-VD) and Beijing Institute of Technology, China organised the Indian leg of the Summer University program.

Participants from Switzerland and China arrived on 19th February, 2016 and visited different places in Mangaluru on first two days. Inauguration of the program was held on 21st February, 2016 and industry visit started from 22nd of February. Over next six days, total eight companies were visited viz. Bharath Tile Company, Lamina Suspensions, Primacy, Bharath Beedi, Dakshina Kannada Cooperative Milk Producers' Societies Union Ltd, Kalbavi Cashews, Achal Cashews, and waste water treatmentplant of Udupi City Municipal Corporation. Students were divided into two groups, first group examined the quality and security management whereas, the second group examined the marketing and communication aspect. Students were divided into two groups and each group consisted equal number of students from all three institutions. They compared the similarities and differences in the business practices across three countries. It provided an opportunity for the students to work in an international setting, to understand and appreciate the cultures of other people.

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### **Golden Jubilee Celebrations of Department of Chemical Engineering, NITK**



department of Chemical Engineering, The NITK, Surathkal started in the year of 1965, has completed 50 years of existence in the field of chemical engineering education. As a part of golden jubilee year celebrations, the department organised (i) felicitation to the retired faculty and staff members, (ii) International conference, (iii) Industrial exhibition, and (iv) Students project competition during 20th to 22nd December, 2015. The felicitation function was conducted on 20th December, between 2:00 P.M to 5:00 P.M., Prof. M.M.Sharma, Padma Vibhushan, former Director of UDCT, and Prof.M.S.Ananth, former Director of IIT Madras, along with the faculty members and Alumni of the department felicitated the founder head of the department, Prof.M.G.Subba Rao and

other retired Professors and non-teaching staff members.

The inauguration of the International Conference on Advances in Chemical Engineering (ICACE-2015) was conducted between 6 and 7:30 PM, 20th Dec. 2015. This was followed by a cultural event on "Dances of India" by a professional troop.

The technical paper presentation and keynote lectures by invited experts on different themes of the conference was held on 2nd and 3rd day of the conference, i.e., 21st and 22nd Dec., 2015. Around 270 registered delegates, along with a large number of undergraduate, postgraduate students and all faculty members of the department participated in the conference. All the registered delegates presented their research work in the presence of a chair and co-chair of the session, who recommended the best papers in each session.

The industry exhibition was inaugurated by Mr.Kumar, Managing Director, MRPL on 21st morning in New Teaching Block (NTB). Various industries such as MRPL, MCF, BASF, JBF, NMPT, Usha fire equipments, etc., participated in the exhibition. The department also presented the details of the faculty members and their expertise/ research areas, key infrastructure/facilities and the list of funded projects being undertaken by the department.

Student project competition attracted good number of participation from various institutions across the country and was judged by a panel of academic and industry experts for the award of prizes.

The poster presentation was held simultaneously and the best posters were awarded merit prizes.

On the second day, i.e. 21st Dec., a cultural programme, Yekshagana (in English) was performed by a professional team to portray the local folk art.

The golden jubilee celebration activities came to an end with a valedictory function arranged in the evening, around 6 PM. On 22nd Dec 2015Mr. Prabhakar Rao, Director of Works, MCF was the chief guest of the function. Merit prizes and citations for best papers of the various technical tracks, poster presentations, and student competition were awarded. The feedback from delegates were provided, which indicated the success of the programme.

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## Awards & Recognition

### Student's

Sl. No.	Department	Student Name	Programme	Year	Award Detail
1.	Electronics & Communication Engineering	Sarwesh P (EC13F05), Research Scholar	Best paper award for his technical paper titled "Energy Efficient Network Architecture for IOT Applications" IEEE ICGCIOT, 2015	2015	Best paper award
2.	Electronics & Communication Engineering	Karthik Hegde (11EC39), 8th sem BTech (E&C) student	Best paper award for his technical paper titled "High Speed FFT for low end GPGPUs" at Intl. conf. on High Performance Computing.	2015	Best paper award
3.	Electronics & Communication Engineering	Prajwal M V (11EC66) Srinivas B S (11EC97)	Texas Instruments analog design contest	2015	First prize
4.	Electronics & Communication Engineering	Naveen John (12EC67)	Google student ambassador representing NITK for the 2014- 15 academic year. He is one among 177 participants selected from over 2000 applicants around the globe	2015	Selected
5.	Electronics & Communication Engineering	Pranav Chennakeshava (12EC74)	IET India Scholarship 2015	2015	Selected for Regional Presentation Round for South India Region
6.	Electronics & Communication Engineering	Pranav Channakeshava (12EC74) Abhishek Rathan Kumar (12EC03)	Anveshana-2015 held by Freescale Semiconductors, Bangalore.	2015	Entered the finals of competition
7.	Electronics & Communication Engineering	Abhinav Roy Burman (12EC01)	Justice Tarkunde National parliamentary debating tournament, ILS, Pune.	2015	2nd place

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8.	Electronics & Communication Engineering	Abhinav Roy Burman (12EC01)	RV debating tournament, Bangalore	2015	3rd place
9.	Electronics & Communication Engineering	Abhinav Roy Burman (12EC01)	Freestyle relay, swimming, Inter-NIT, Surathkal	2015	Gold medal
10.	Electronics & Communication Engineering	Lakshmana Kumar (12EC50) Alok Babu (12EC21)	Kabaddi competition	2015	Were part of the inter-NIT team which came first
11.	Electronics & Communication Engineering	Kevin D'souza (13EC256)	E-Yantra Robotics competition held at IIT Bombay Conducted by Nex robotics in collaboration with IIT Bombay	2015	Winner
12.	Mining Engineering	Dhyvik G.J	In All India inter NIT sports Tournament organized by Dept.of Phisical Education, SVNIT, Surath during 3-5th April, 2015	2015	FIRST place in BEST PHYSIQUE (80 Kg)
13.	Applied Mechanics & Hydraulics	Ms. Ganasri B.P., Research Scholar	International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE '15), 12-14 March 2015 organised by Department of Applied Mechanics and Hydraulics, NITK Surathkal	2015	Young Scientist Award and Best Paper Award for the paper titled 'Study of Land Use/ Land Cover Dynamics through Classification Algorithms for Harangi Catchment Area, Karnataka State, INDIA
14.	Chemical Engineering	Jyothivanan E	Developed, DyAgram (Beta) - A Unique DNA Based Ink and Hologram for Authentication Security.	2015	Awarded the best innovative student project award by Indian National Academy of Engineering.

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15.	Chemical Engineering	Srajan Shetty	Dr. P. K. Karanth Memorial quiz competition organized by Indian Institute of Chemical Engineers, Mangalore Chapter.	2015	First Prize
16.	Chemical Engineering	Acharya Dharmanand	The quiz was organized on 30th October 2015, in Department of Chemical Engineering, at Manipal Institute of Technology, Manipal	2015	Second Prize
17.	School of Management	Mr. Anil Kumar	PhD consortium 2015 conference for the paper title "Legal Insider Trading Behaviour Imperical evidence from India" at IIT, Bombay	2015	2nd Best Paper award
18.	Civil Engineering	Mr. Suman Saha	Best M.tech Thesis Award	2015	ACCE award 2015

\*Please note this is not an exhaustive list.

## Faculty

Sl. No.	Department	Name of Faculty	Award Details
1.	Applied Mechanics & Hydraulics	G. S. Dwarakish	Prof. Satish Dawan young Engineers State award' for the year 2013
2.	Computer Science & Engineering	Mohit P. Tahiliani	EMC Young Achiever Award 2015, EMC Corporation
3.	Mechanical Engineering	Vijaykumar H	Award of excellence in thesis work, IITB Convocation 2015
4.	Mining Engineering	K.Ram Chandar	Smt. Kiran Devi Single Memorial National Award availed from Mining Engineers Association member Technical Committee under RTPP Act- 1999 under Section – 4-(b) of Mysore Minerals Ltd.

5.	School of Management	Sunil D'Souza & Prof. A.H. Sequeira	Best Outstanding Research Paper Award, International Management Research Academy, UK, London and IIM Bangalore, Competitive Paper Category titled "Inclusive Growth in Enhancing Healthcare Service Quality"
6.	School of Management	Sheena	Best paper award in the category of "Case based Research" in the ICIER International conference organized by the IIM, Bangalore paper titled "Orchids in the Wild" AN INVESTIGATION INTO ENTERPRENEURIAL EDUCATION EFFECTIVENESS AND TOURISM DEVELOPMENT AMONG WOMEN SHGs
7.	Civil Engineering	Manjunath B M and Ravi Shankar A.U	Award of Bihar PWD Medal, presented at 76th annual Session of Indian Roads Congress, Indore(M.P) on December 19,2015

\*Please note this is not an exhaustive list.

## Farewell organized

S. No.	Name	Department	Date of Joining	Date of Retirement
1.	Dr. Shivakumar Professor	Physics	30.10.1990	31.7.2015
2.	Sri. Shashikantha Kumar Senior Assistant	Library	4.5.1978	30.9.2015
3.	Sri. Narayana Senior Attendant	Central Computer Centre	31.10.1978	31.10.2015
4.	Sr. Purandara Senior Attendant	Central Computer Centre	1.12.1977	30.11.2015

### Special assignments faculty members

- Prof. S. M. Kulkarni appointed as faculty in charge IIP cell.
- Prof. S. M. Kulkarni served as Editor in chief, Journal of Mechantronics and Automation, STM Publishers
- Prof. M S Bhat
  - Member Board of Studies of Engineering MSRSAS, B'lore and Goa University.
  - Handling Editor, Journal of Circuits, Systems and Computers (JCSC), World Scientific
- Prof. Sumam David S
- Member, DASA 2015 Implementation & Technical Committee DASA
  2015 coordinated by MNIT Jaipur
- Prof. Muralidhar Kulkarni
- Member, Board of Governors, Malnad College of Engineering, Hassan.
- Joint Secretary (Research and Academics), Vice Chair, IET (UK), Bangalore Local Network
- Vice Chairman, IET(UK), Local Network, Joint Secretary Bangalore (Research and Academics)
- Dr. Arun M. Isloor, was invited by University Putra Malaysia, Kuala Lumpur for delivering an Invited lecture in "International Workshop on Advanced Materials & Nanotechnology" held during 04-05 November 2015.
- Prof. R. Shivashankar is the Guest Editor for a special issue on 'Geosynthetics', (Southeast Asian Geotechnical Society - Association of Geotechnical Societies of Southeast Asia) SEAGS-AGSSEA Journal: 2018 -2019

News Letter

#### **PLACEMENT STATISTICS DURING THE YEAR 2015-16**

(DATA FROM 01.07.2015 TO 31-12-2015)

Branch	<b>Total Students</b>	Placed	% Placement
CIVIL	92	29	32
CHEMICAL	49	23	47
COMPUTER	99	85	86
E & C	102	74	73
E & E	102	62	61
I.T	97	76	78
MECHANICAL	147	81	55
METALLURGY	40	19	48
MINING	38	11	29
Total(B.Tech)	766	460	60
	M.TECH		
STRUCTURAL ENGG.	26	5	19
GEO TECH.	13	1	08
ENVIRONMENTAL	24	3	13
TRANSPORTATION SYSTEM	22	0	00
<b>CONSTRUCTION TECH &amp; MGMT</b>	23	1	07
MARINE STRUCTURES	20	0	00
WATER RESOURCE ENGG & MGMT	12	1	08
REMOTE SENSING & GIS	23	0	00
INDUSTRIAL POLLUTION CONTROL	17	1	06
CHEMICAL PLANT DESIGN	10	2	20
INDUSTRIAL BIOTECHNOLOGY	21	1	05
COMPUTER SCIENCE & ENGG	27	22	81
INFORMATION SECURITY	24	20	83
VLSI	25	6	24
COMMUNICATION ENGG	27	7	26
POWER & ENERGY SYSTEM	27	5	19
INFORMATION TECHNOLOGY	21	17	81
THERMAL ENGG	13	5	38
MANUFACTURING ENGG	15	4	27
MECHATRONICS	25	7	28
DESIGN & PRECISION	14	5	36
PROCESS MET.	13	0	00
MATERIALS ENGG.	24	4	17
NANOSCIENCE AND NANOTECHONLOGY	11	4	36
СМА	19	10	53
Total(M.Tech)	471	131	28
МСА	91	51	56
MBA	35	2	06
M.Sc(Chemistry)	20	0	00
M.Sc(Physics)	20	0	00
TOTAL	1428	644	45
NUMBER OF COMPANIES VISITED	Average Salary(LPA)	Maximum Salary (LPA)	Median (LPA)
174	8.77	25.0	7.24

#### **Start-ups @NITK**

Startup activities have spanned several domains ranging from Cloud based technologies to cash collection services to Environmental solutions to health care solutions to Embedded System development.

#### A brief overview of some successful startup ventures by our students:

- **Practo** (www.practo.com)
- Set up by Shashank N D and Abhinav Lal.
- Valued at Rs. 3300 crores.
- Batch of 2009
- **Taxi for Sure**(www.taxiforsure.com)
- A start up venture that made headlines in the recent past: ``Taxi for Sure''- Pioneered Call Taxi Service in India.
- Started by Aprameya and Raghunandan
- Batch of 2003
- Recently acquired by ``Ola cabs'' for Rs. 1200 Crores.
- **Kyash** (www.kyash.com)
- Major chunk of revenue for internet business in India comes from off-line payment methods like cash on delivery.
- Automated and secure system to collect payments.
- Set up by Sandeep Koujalgi (Batch of 2005)
- **Simplilearn** (www.simplilearn.com)
- Provider of a suite of professional certification courses.
- Works with companies and professionals to address their unique training needs.
- Set up by Krishna Kumar (Batch of 2005)
- Sampurn(e)arth Environment Solutions Pvt. Ltd: (www.sampurnearth.com)
- Focuses on transformation of waste into utilizable products without exploiting people.
- Works towards breaking the current cycle of extraction, production, consumption and dumping which has lead to ground water pollution and climate change.
- Set up by Jayanth N (batch of 2006)
- *Karma Health Care* (www.karmahealthcare.com)
- Deals with Mobility Rehabilitation care.
- Deals with sales and service of Bariatric, Pediatric, Active and Ergonomic wheelchairs.

- Set up by Jagdeep Gambhir (Batch of 2008)
- **Rhapsody Labs** (www.rhapsodylabs.com)
- Brings state of the art computer vision, computer graphics and machine learning research to realize the full potential of augmented reality technology.
- Set up by Siddharth C (batch of 2012)

#### **Upcoming Events**

- E & C Dept.:
  - Short Course Sponsored by GIAN (MHRD) on "Internet of Things (IoT)" by Dr. Krish Prabhu, CTO, AT&T Labs, USA from January 18 – 22, 2016.
  - One day workshop on "Identifying and Protecting IPR in Academia" by Mr. Omprakash Director, M/s Om Patent Services Pvt. Ltd., Bangalore during 27-1-2016.
  - Guest lecture by Dr. Venkat Ajjanagadde, Ph.D., President, QuaSci Labs LLC, USA on "Build and simulate electronic circuits virtually in an interactive 3D environment" on 29-1-2016.
- CSE Dept.:
  - 05 days Faculty development Programme on Information Security & research Challenges (ISRC'16) during 25th to 29th January 2016. (Coordinators – Dr. Alwyn R. Pais and Dr. P. Santhi Thilagam)

#### • Chemistry Dept.:

- National Level Chemistry Fest, Uthkhanan 16 on Feb. 06, 2016.
- A course (one week program) on "NOVEL FUNCTIONAL MATERIALS FOR ENERGY CONVERSION", under GIAN (Global Initiative of Academic Networks), during October 3-7, 2016; Foreign Faculty: Prof. Prashanth V. Kamath, Notre Dame University, USA; Host Faculty: Prof. A. Vasudeva Adhikari, Chemistry Department.

#### • School of Management

- Two days National Conference on "Outcome Based Education" during 16-17th January 2015
- National Conference on Emerging Issues in banking and Finance in a Technology Driven Economy is being organized by the School of Management on February 20th, 2015
- National Workshop on "Big Data Analysis: Deriving Causal Inferences Using Statistical and Computational Techniques organized by the School of Management on 1st – 2nd April 2016 in the Main Seminar Hall of the Institute.
- Civil Engineering
  - Workshop on "Action Plan for Sanitation" for UBA Subject Experts of Theme Sanitation 21 Experts from various IIT's and NIT's are expected to participate, 17-18 March 2016.

- 10th International Symposium on Lowland Technology (10ISLT2016), 15th to 17th September 2016, in association with International Association of Lowland Technology (IALT), Institute of Lowland and Marine Research (ILMR), Japan
- Asia Collaborative Lecture Series for students (Research Scholars) from Japan, Asia and India, September 12-17, 2016, in association with IALT and ILMR, Japan.

#### \*Please note this is not an exhaustive list.



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