

**National Institute of Technology Karnataka, Surathkal**

*Mangaluru - 575025, Karnataka, India*

*[www.nitk.ac.in](http://www.nitk.ac.in)*

## **NITK Newsletter**

# WAVES

**Issue : 1**

**January - June - 2018**

**Vol : 4**







***National Institute of Technology Karnataka, Surathkal  
Mangalore-575025, Karnataka, India  
[www.nitk.ac.in](http://www.nitk.ac.in)***



We welcome **Dr K Balaveera Reddy** to the NITK family. He has been appointed as Chairman, BOG w.e.f. June 28, 2018.

## Message From the Chairman



I am pleased to know that a new issue of the NITK Newsletter 'Waves' is being published. The Newsletter performs the same function as the pulse does in a human being; it provides an indication of the health of the Institute by showcasing the achievements of faculty, staff and students. It is gratifying to note from the achievements described in the present issue that the health of NITK is 'Satisfactory'. However, as Chairperson of the Board of Governors and the Head of Team-NITK, my target is to ensure that the health of NITK should be 'Excellent'. Having spent most part of my academic career in this great Institution, I am aware of its strengths and its potential to be not just the best technological institution in India but the world itself. However, from my experience as the Vice Chancellor of one of the largest technological universities, I also know that several internal and extraneous constraints/limitations are imposed on institutions. Therefore, the key to progress and success of an organization lies in exploiting strengths and opportunities while at the same time being aware of weaknesses and threats. In recent times, the face of education in general and technical education in particular across the globe, is undergoing a sea change. With the advent of high speed internet access and explosion of information, the very nature of 'what is to be taught' and 'how it is to be taught' is undergoing a paradigm change. This calls for introduction of new teaching-learning methods, use of IT tools in teaching/evaluation, developing new teaching aids, bringing research into the classroom and inculcating innovation and entrepreneurial skills in students. A key performance indicator of a successful institution is its placement profile – percentage placements and the quality of jobs secured by the graduates, which can be enhanced through active industry-institute interactions and strong alumni-institute relationships. Also, it is now time to accept that visibility, brand-image and ranking of the Institute at the global level are vital for attracting – the best students and faculty, increased funding/resources and the best companies for recruitment. Unless we as an Institution make a determined effort to scale-up our productivity both in terms of quantity and quality and develop systematic procedures of documentation, NITK may lose its rightful place in the list of top technological institutions of the world. But, I am very optimistic and extremely confident that NITK has the inner strength and potential to achieve the highest global ranking. If each member of Team-NITK adopts the spirit of coopetition (cooperation + competition) we will be able to ensure that we will emerge as an Institution-with-a-difference and achieve our Vision. I seek the whole-hearted cooperation of all faculty, staff, students and alumni in achieving this dream. Remember, *'the success of the Institution lies in your success and your success lies in the success of the Institution'*. My Best Wishes to each member of Team-NITK.

**K Balaveera Reddy**



## Message from the Director



I would like to welcome you to yet another issue of *WAVES*, a NITK newsletter.

This issue of *WAVES* is envisioned to represent a few milestones of our mission. The mission is to become a voice of the department of NITK, addressing researchers and practitioners in areas ranging from electrical to computer sciences, chemical technology to chemistry, from classical mechanical to mining & geosciences, from mathematics to software architecture, presenting verifiable computational methods, findings, and solutions.

It is our hope that this fine collection of information in *WAVES* will be a valuable resource for the readers and will stimulate research into the vibrant area of engineering.

***K.Umamaheshwar Rao***



I am extremely happy to write this message on the occasion of release of yet another version of waves the institute newsletter Volume 4 - Issue 1. This newsletter documents the important activities of NITK during the period January to June 2018. NITK has been successfully contributing to technical education and producing successful engineers entrepreneurs competent scientist and leaders. During the year 2018, Institute has grown with new infrastructure new faculty and staff and planning for new academic curriculum to suit the changing needs of the industry and society. I take this opportunity to personally thank all those who supported and co-operated in bringing out this biannual publication of NITK newsletter I also wish all members of the NITK family a very happy new year and hope the institute will reach the greater height with years to come with support of all the stake holders.

**G. Srinikethan**  
(Co-ordinator)



## Editorial Team:

*G. Srinikethan*  
*(Professor, Department of Chemical Engineering)*  
**Coordinator**

*M B Saidutta*  
*Dean (Academic)*

*Aloysius H. Sequeira*  
*Dean (Faculty Welfare)*

*Dwarakish G S*  
*Dean (Planning & Development)*

*S.M. Hegde*  
*Dean (Students' Welfare)*

*Ananthanarayana V.S*  
*Dean (Research & Consultancy)*

*Prasad Krishna*  
*Dean (Alumni Affairs & Institutional Relations)*

*Vijay H. Desai*  
*Prof. I/C (Career Development Centre)*

*Priyanka Dattanand Amadalli*  
*Assistant Registrar (Academic)*  
**Co-coordinator**

## **Contents (Jan 2018 – June 2018)**

- Administrative appointments- (Non Faculty & Faculty)
- Special Assignments – Faculty members
- Awards & Achievements of Faculty Members
- Awards & Achievements of Students
- Workshops/Conferences organized
- GIAN Programmes conducted
- NITK Alumni Centre for Excellence (ACE)
- Patents filed & MOUs signed
- Inauguration of eLibrary Complex
- TDR@NITKS Launched by Chairman, BOG
- TEQIP –III
- Digital Initiatives
- List of Projects Sanctioned
- Activities at the Institute
- Placements 2017-2018
- Retired (Teaching & Non Teaching Staff)



## **Administrative Appointments(Faculty & Non Faculty)**

### **Non Faculty Appointments:**



We welcome Mr. Mallikarjuna Angadi to the NITK family. He has been appointed as Librarian, NITK, Surathkal, w.e.f. 16.02.2018.



We welcome Mr. Mohamod Firoze Khaza to the NITK family. He has been appointed as Executive Engineer, NITK, Surathkal, w.e.f. Jan 15<sup>th</sup> 2018.

### **Faculty Appointments:**



We welcome Dr. Poornesh Kumar K to the NITK family. He has been appointed as Assistant Professor, Department of Mechanical Engineering, NITK, Surathkal, w.e.f. 21<sup>st</sup> May 2018.



We welcome Dr. Kiran M to the NITK family. He has been appointed as Assistant Professor, Department of Information Technology, NITK, Surathkal, w.e.f. 22<sup>nd</sup> May 2018.



We welcome Dr. Bhawana Rudra to the NITK family. She has been appointed as Assistant Professor, Department of Information Technology, NITK, Surathkal, w.e.f. 23<sup>rd</sup> May 2018.



We welcome Dr. Prabu K to the NITK family. She has been appointed as Assistant Professor, Department of Electronics and Communication Engineering, NITK, Surathkal, w.e.f. 28<sup>th</sup> May 2018.



We welcome Dr. Sumanth Govindarajan to the NITK family. He has been appointed as Assistant Professor, Department of Metallurgical & Materials Engineering, NITK, Surathkal, w.e.f. 28<sup>th</sup> May 2018.



We welcome Dr. Yashwant Kashyap to the NITK family. He has been appointed as Assistant Professor, Department of Electrical & Electronics Engineering, NITK, Surathkal, w.e.f. 28<sup>th</sup> May 2018.





We welcome Dr. Saurabh Chandraker to the NITK family. He has been appointed as Assistant Professor, Department of Mechanical Engineering, NITK, Surathkal, w.e.f. 28<sup>th</sup> May 2018.



We welcome Dr. A Azhoni to the NITK family. He has been appointed as Assistant Professor, Department of Civil Engineering, NITK, Surathkal, w.e.f. 29<sup>th</sup> May 2018.



We welcome Dr. B. Rajasekaran to the NITK family. He has been appointed as Assistant Professor, Department of Metallurgical & Materials Engineering, NITK, Surathkal, w.e.f. 13<sup>th</sup> June 2018.



We welcome Dr. T. Palanisamy to the NITK family. He has been appointed as Assistant Professor, Department of Civil Engineering, NITK, Surathkal, w.e.f. 22<sup>nd</sup> June 2018.

### **SPECIAL ASSIGNMENTS – FACULTY MEMBERS:**



We Congratulate Prof. Aloysius Henry Sequeira Department of School of Management on taking over the charge as Dean(Faculty Welfare) w.e.f. 15.03.2018.

**Dean (Faculty Welfare)**



We thank Prof. T. P. Ashok Babu, Department of Mechanical Engineering for his sincere efforts as Dean (Faculty Welfare). His service as Dean (Faculty Welfare) is appreciated and placed on office records.



**Head of Department (Department of Electronics & Communication Engineering)**

We Congratulate Prof. T. Laxminidhi on taking the charge of HOD w.e.f. 17.04.2018.



We thank Prof. U. Shripathi Acharya for his sincere efforts and discharging duties as HOD from to 16.04.2018. His service as HOD is appreciated & placed on records.



**Head of Department (Department of Metallurgical & Materials Engineering)**

We Congratulate Prof. Anandhan Srinivasan on taking the charge of HOD w.e.f. **20.04.2018.**



We thank Dr. Udaya Bhat K. for his sincere efforts and discharging duties as HOD from to 19.04.2018. His service as HOD is appreciated & placed on records.



We congratulate Prof. G. Srinikethan, Professor, Dept. of Chemical Engineering on taking over the charge as Director In-charge, NITK STEP with effect from 17.01.2018.



We thank Prof. K. B. Kiran, Department of School of Management for his sincere efforts as O.S.D., NITK STEP. His service as O.S.D., NITK STEP is appreciated and placed on office records.



We Congratulate Dr. N. Lakshman, Professor, Dept. of Applied Mechanics and Hydraulics on taking the charge as Chairman Library Advisory Committee w.e.f. 01.01.2018.



We thank, Prof. Ravikiran Kadoli, Department of Mechanical Engineering for his sincere efforts as Chairman Library Advisory Committee. His service is appreciated and placed on office records.





We Congratulate Prof. Paresh Chandra Deka, Associate Professor, Dept. of Applied Mechanics & Hydraulics on taking the charge as Liaison Officer of OBC cell w.e.f. 16.02.2018



We congratulate Prof. Vijaya Desai, Dept. of Mechanical Engineering on taking over the charge as Professor In-charge (Career Development Centre) with effect from 01.05.2018



We thank, Prof. Muralidhar Kulkarni Department of Electronics and Communication Engineering for his sincere efforts as Professor In-charge Training & Placement. His service is appreciated and placed on office records.



We Congratulate Dr. Veershetty Gumtapure, Department of Mechanical Engineering on taking over the charge as Liaison Officer of the SC-ST Cell with effect from 20.06.2018



We thank, Dr. Jagadeesh Babu, Department of Chemical Engineering for his sincere efforts as Liaison Officer of the SC-ST Cell. His service is appreciated and placed on office records

## AWARDS & ACHIEVEMENTS OF FACULTY MEMBERS

SI. No	Name of Faculty	Department	Achievements
01	Dr. Hari Prasad Dasari	Chemical Engineering	Associate Fellow of Telangana Academy of Sciences- 2017
02	Dr. K. Chandrasekaran	CSE	Book written by Prof. K Chandrasekaran titled "Essentials of Cloud Computing" published by Chapman and Hall/CRC Publication, USA in 2014 has been recommended by AICTE (All India Council of Technical Education) for Under Graduate Students as an additional resource book for the academic year 2018- 2019.
03	Dr. K. Chandrasekaran, (with Sarwesh P. and Dr. N. S. V.Shet)	CSE	Published a paper titled "ETRT – Cross layer model for optimizing transmission range of nodes in low power wireless networks – An Internet of Things Perspective" in 29th Volume of Physical Communication, Elsevier [E-SCI] with ISSN 1874-4907, <a href="https://doi.org/10.1016/j.phycom.2018.06.005">https://doi.org/10.1016/j.phycom.2018.06.005</a>
04	Dr. K. Chandrasekaran, (with John Paul Martin and Prof. A. Kandasamy)	CSE	Published a paper titled "Exploring the support for High Performance Applications in the Container Runtime Environment" in 8th Volume of Human-centric Computing and Information Sciences, Springer [E-SCI] with DOI: <a href="https://doi.org/10.1186/s13673-017-0124-3">https://doi.org/10.1186/s13673-017-0124-3</a> .
05	Dr. Debashisha Jena	E&E Engg.	Received the 1st prize ( Rs 50,000) for National Level Open Challenge Competition-DEFXEPO-2018
06	Dr. K. P. Vittal	E&E Engg.	Executive Committee member, IEEE PES India Council Chapter, 2018-19
07	Dr. K. N. Shubhanga	E&E Engg.	Published a book titled "Power System Analysis-A Dynamic Perspective", with Pearson Education India

08	Dr. G S Punekar	E&E Engg.	Keynote Address at the National Conference on Electrical Power System Engineering 2018 organized by Department of Electrical and Electronics, SDM college of Engineering and Technology Dharwad on 20th April 2018.
09	Dr. G S Punekar	E&E Engg.	Member of technical committee of International Conference on High Voltage Engineering and Technology (ICHVET 2019) being hosted by CPRI starting on 07/02/2019
10	Dr. G S Punekar	E&E Engg.	Industry collaborative research work through M.Tech by research (part time) completed successfully work pertinent to the industry (OMPL) titled: Concerning short circuit faults in a captive power plant: A study
11	Dr. B. Venkatesaperumal	EEE	Editorial Board member -International Journal of Engineering Science and Management
12	Dr. Shyam Lal	E&C	Outstanding reviewer award for the prestigious journal i.e. "Biomedical Signal Processing and Control" Elsevier Publisher. February 2018.
13	Dr. G. Ram Mohana Reddy	IT	AMD Best Student Project (M.Tech) 2018 Prize for the project " IOT based Real-Time Context Aware Multi-Modal Student's Affective Analysis in Classroom Response System" (Cash prize of Rs. 25,000)
14	Dr. Sowmya Kamath	IT	<ul style="list-style-type: none"> <li>AMD Best Student Project (B.Tech) 2018 Prize for the project "Out-of-Context Object Identification for image Enhancement" (Cash prize of Rs. 25,000)</li> <li>Received special invite for participation in Innovation Exhibition 2018 and Interaction with Grassroots innovators at Rashtrapathi Bhawan, New Delhi (19th March, 2018)</li> </ul>



			Innovative work titled "Predictive Analytics for Intelligent Healthcare Applications" was selected for participation in the Festival for Innovation and Entrepreneurship 2018 (FINE 2018) , organized by The President's Secretariat in association with Department of Science & Technology/National Innovation Foundation-India (March 19-21, 2018).
15	Dr. A. O. Surendranathan	Dept. of Metallurgical & Materials Engg.	"Life time achievement award" from International Organization for Scientific Research and Development, Vishakapatnam, in 2018.
16	Dr. Arumuga Perumal D	Mechanical Dept	Innovative Technological Research (Thermal Engineering) & Dedicated Teaching Professional Award" from The Society of Innovative Educationalist & Scientific Research Professional -Chennai & Innovative Scientific Research Professional - Malaysia on 25 March 2018
17	Dr. N Gnanasekaran	Mechanical Dept	Best Paper award "Accelerating MCMC using model reduction for the estimation of boundary properties within Bayesian framework" at NIT Warangal,NHTFF 2018.
18	Dr. Sudhakar C Jambagi	Mechanical Dept	Best paper award in National conference on emerging trends in mechanical engineering and its applications 2018 held at SRM University Chennai
19	Dr. Arun M. Isloor	Chemistry	Was granted with US Patent on January 10th 2018.
20	Dr. G. S. Dwarakish	AMD	Paper 'Climate change and global sustainability : Action for bridging the gap', 2nd International conference on Climate change 2018, , 15-16, Feb. 2018, colombo , Srilanka has been honoured with <b>BEST PAPER AWARD</b>

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

## AWARDS & ACHIEVEMENTS OF STUDENTS

Sl. No	Department	Name of the Student	Programme and Semester	Awards and Achievements
01	Chemical Engineering	Priyanka U	Ph.D. /VIII Semester	Indo-US Science and Technology: Fellowship, Six months Internship
02	Chemical Engineering	Vishnu M.	Ph.D. /VI Semester	Invited to attend the Festival of Innovation and Entrepreneurship – 2018, held at Rashtrapathi Bhavan
03	Chemical Engineering	Aditya Kumar Singh G. Pavan	B.Tech. / VII Semester	Best poster award, Chemference'18 at IIT Bombay
04	CSE	Ashish	Final year B.Tech. Student	Co-founder and a Web Developer of a Startup Named "Astral Presence" started in January 2017
05	CSE	Pramod B S	Final year B.Tech.	Published a paper titled "Influence of Indirect Vision and Virtual Reality Training Under Varying Manned/Unmanned Interfaces in a Complex Search-and-Shoot Simulation" as second author in AHFE 2018 International Conference on Human Factors and Simulation and Digital Human Modeling and Applied Optimization.
06	CSE	Kaushik S Kalmady	Final year B.Tech.	Published a journal paper "Automatic detection of tuberculosis bacilli from microscopic sputum smear images using deep learning methods" in Elsevier Journal of Biocybernetics and BioMedical Engineering , 2018.
07	CSE	Kaushik S Kalmady	Final year B.Tech.	Chooosen as a Mentor for NS3.

08	CSE	Indukala	Final year B.Tech	Completed an Internship at INRIA, France (through INRIA Research Programme) and she has Published Paper at ICACCI, 2018.
09	CSE	Derik Clive R	Final year B.Tech	Selected for DAAD Scholarship in Institute of University of Augsburg, Germany in 2018.
10	CSE	Harita Reddy	Final year B.Tech	Completed an Internship at MITACS Globalink Research (May to July 2018).
11	CSE	Zoeb Mithaiwala T K Jeshventh Raja & Saumyadip Mandal	Final year B.Tech	Presented a Paper "Singer Identification from Smaller Snippets of Audio Clips using Acoustic Features and DNNs" in International Conference on Contemporary Computing, 2018.
12	CSE	Aditya K Kamath	Final year B.Tech	Presented a paper "Sobriety Testing Based on Thermal Infrared Images Using Convolutional Neural Networks" in TENCON 2018.
13	CSE	Sagar Bharadwaj	Final year B.Tech	Selected for Google summer of code in Mozilla.
14	CSE	Sagar Bharadwaj	Final year B.Tech	Part of winning team for making a 'Snake Robot' at Eyantra, National Level Robotics Competition by IIT-B
15	CSE	Arvind Sai Krishnan Ashwin Joisa Somnath Sarkar	Final year B.Tech	Presented a paper "Solve It: Automated Recognition and Processing of Handwritten Mathematical Equations", in the 4th IEEE I2CT conference.
16	CSE	Hrishikesh Hiraskar	Final year B.Tech	Selected for Google summer of code 2018 in Haiku.
17	E&E Engg.	Rajaneesh Acharya	Ph.D. Scholar	got the 1st prize ( Rs 50,000) for National Level Open Challenge Competition
18	E&E Engg.	Deepthi Antony	PhD Scholar under the guidance of Dr G S Puneekar	Received the travel grant from Science and Engineering Research Board (SERB-GoI) to attend and present the paper at the 2018 Electrostatics Joint Conference, held at Boston University, Boston, USA (from 18 June, 2018 to 20 June, 2018).



19	E&E Engg.	Harimurgan D	PhD Scholar under the guidance of Dr G S Puneekar	Two technical papers were presented in 2018 Electrostatics Joint Conference, held at Boston University, Boston, USA (from 18 June, 2018 to 20 June, 2018).
20	E&E Engg.	Deepthi Antony	PhD Scholar under the guidance of Dr G S Puneekar	Got 1st place in student paper competition for her paper (and presentation) titled "Improvements in an Iterative Method for Localization of Partial Discharge Source in Oil Insulation", at the 2018 Electrostatics Joint Conference, Boston University, Boston, USA (18 June, 2018 to 20 June, 2018).
21	E&E Engg.	Alok Aryan Jugal V parmar	Project Guide Name Dr. B. Venkatesa Perumal	Student Project of the Year 2017 - Project Titled "Smart Cahrger 9An Add-on Module to Solar Irrigation pump" from the Institute for Exploring Advances in Engineering (IEAE – 2018) and it is indexed in IEAE Digital Library of Academic Projects (DLAP)
22	IT	Mahim Agrawal	B.Tech (IT), IV Sem	Huawei Scholarship 2017-18
23	IT	M M Vikram	B.Tech (IT), VI Sem	
24	IT	S S Karan	B.Tech (IT), VIII Sem	
25	IT	Ayushi Agrawal	B.Tech (IT), VIII Sem	
26	IT	Adithya Bhat	B.Tech (IT), VIII Sem	
27	IT	Pooja Soundalgekar	B.Tech (IT), VIII Sem	AMD Best Student Project Award 2018 (B.Tech)
	IT	Sneha Jhaveri	B.Tech (IT), VIII Sem	
	IT	Nihar Joshi	B.Tech (IT), VIII Sem	
28	IT	Sujit Kumar Gupta	M.Tech (IT), IVSem	AMD Best Student Project Award 2018 (M.Tech)
29	IT	Moksh Jain	B.Tech (IT), IV Sem	Won First prizes (Rs. 15,000) in AMD Tech Day 2018 coding contest
	IT	Salman Shah	B.Tech (IT), VI Sem	
	IT	Mahim Agrawal	B.Tech (IT), IV Sem	

30	IT	Vijaya Saradhi	M.Tech (IT), IVSem	Won Second prizes (Rs. 10,000) in AMD Tech Day 2018 coding contest
	IT	Raghavendra D. R	M.Tech (IT), IVSem	
31	IT	Ujjwal Pasupulety	B.Tech (IT), VI Sem	Won Third prizes (Rs. 5,000) in AMD Tech Day 2018 coding contest
	IT	Kapil Bharath	B.Tech(ME),VI Sem	
	IT	Ram Aditya	B.Tech (IT), IV Sem	
32	Mining Engineering	P. V. V. Raghunandan	B.Tech and 5th	Inter NIT Handball Runner-up 2017-18
33	Mining Engineering	Rahul Mohan	B.Tech and 5th	Inter NIT Handball Runner-up 2017-18
34	Metallurgical & Materials Engg.	Manjunath G. K.	Ph.D. Scholar	Best Paper Award for the paper titled 'Flow properties of cast Al-Zn-Mg Alloys subjected to equal channel angular pressing' at the International Conference on AMMEE held during 2 to 3 March 2018.
35	Mechanical Engg.	Sachin B	Ph.D. V Sem	Best Paper Award by International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering systems (CDAMIES2018), NIT-Tiruchirappalli, Tamil Nadu during 18-20 January 2018.
36	Mechanical Engg.	Gopal D Gote, Gajanan M Naik	M.Tech. (Completed) Ph.D. IV sem	Best Paper Award by International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering systems (CDAMIES2018), NIT-Tiruchirappalli, Tamil Nadu during 18-20 January 2018.

37	Mechanical Engg.	Vishweshwara P S	Ph.D. VII Sem	Best paper award for "Inverse estimation of interfacial heat transfer coefficient during solidification of Sn5%wt Pb alloy using evolutionary algorithm", ICEMMM-2018, SSN college of Engineering, Chennai, India
38	Mechanical Engg.	Visha Gawai	M.Tech. (Completed)	Best paper award in National conference on emerging trends in mechanical engineering and its applications 2018 held at SRM University Chennai
39	Chemistry	G.P. Syed Ibrahim	Ph.D scholar	Was invited by University of Toronto-Canada for doing the collaborative research work during June 2018 for a period of 30 days.
40	AMD	Geetha Kuntoji	Ph.D Scholar (MS)	Paper titled "Prediction of damage level of inner conventional rubble mound breakwater of Tandem breakwater using Swarm Intelligence based Neural Network (PSO-ANN) approach", <b>7th International Conference on Soft Computing for Problem Solving - SocProS 2017</b> , during December 23-24, 2017 held at Indian Institute of Technology Bhubaneswar and has been honoured with <b>BEST PAPER AWARD for the year 2017</b>



41	AMD	Jhoga Parth	M.Tech (MS) Research (4th Sem.)	Paper titled 'A geospatial approach to study shoreline configuration Dynamics - pre, during and post construction of training wall, 37th INDIAN NATIONAL CARTOGRAPHIC ASSOCIATION (INCA) International Congress on Geoinformatics for Carto-Diversity and it's management, Naval Hydrographic Office, Indian Navy, Dehradun has been honoured with <b>BEST PAPER AWARD</b> for the year 2017.
42	Civil Engineering	Panditharadhya B. J.	PhD	Best Technical Paper award in International Conference on Sustainable Construction and Building Materials held on 18th-22nd June 2018 at N.I.T.K., Surathkal
43	Civil Engineering	Prerana Krishnaraj	B.Tech	Association of Consulting Civil Engineers (India) Bangalore Centre's Student Merit Award.
44	Civil Engineering	S.N. Basavana Gowda	PhD	Best Technical Paper Award in International Conference on Sustainable Construction and Building Materials, 18-22 June 2018, NITK.
45	Civil Engineering	Panditharadhya B. J.	PhD	Best Presenter award in the 14th International Conference on Concrete Engineering and Technology (CONCET 2018) held on 7th-10th August 2018 at Kuala Lumpur, Malaysia

*Note: This is not an exhaustive list*

## **WORKSHOPS/CONFERENCES ORGANIZED**

Sl. No	Title	Workshop/Conference/ STTPs/ Expert Lecture	Chief Guest	Date
01	Basics and Technologies in natural gas processing & Career counselling for prospective process engineers	Talk	Mr. Jamil Ahamed, Ministry of Energy and Industry, Doha , Qatar	15.01.2018
02	National Conference on Risk Reduction and Disaster Management in Industries -2018 (RRDMI-2018)	National Conference	Sri. Sasikanth Senthil S. Deputy Commissioner, D.K. District	20.01.2018 to 21.01.2018
03	Basics of Environmental Engineering	Short term training program	Shri. M. Venkatesh, Director (Refinery) MRPL, Mangalore	20.03.2018 to 26.03.2018
04	Catalytic Selectivity Engineering in Sustainable Production of Chemicals, Fuels and Energy from Biomass and Carbon Dioxide	Prof. MG Subba Rau Lecture	Prof. G.D. Yadav, Vice Chancellor, ICT Mumbai	9.4.2018
05	Curriculum Revision Workshop	Workshop	Dr. Jayant M Modak, Professor, IISc, Bangalore	21.04.2018
06	Formal Verification of Robustness Properties of Hybrid Systems	Seminar	Assoc. Prof. Pavithra Prabhakar Kansas State University, Kolkata	02nd January 2018
07	Wireless Network Performance Evaluation	Expert Lecture	Prof. Sumit Roy, Prof. of Electrical Engineering, University, University of Washington	03rd January 2018
08	Curriculum Revision Meeting	Workshop	Dr. Abhiram G. Ranade Professor, Department of Computer Science and Engg., IIT Mumbai Dr. Rajan M.A. TCS Research and Innovation Labs, Bangalore Sreenivasa Ramaneyam Karnataka TCS Bangalore	23rd March 2018

09	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Helder Fonts, INESC TEC, Portugal	11th - 15th June 2018
10	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Prof. Manuel Riardo, INESC TEC, Portugal	11th - 15th June 2018
11	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Rahul Hada, Criterion Networks Bangalore (India)	11th - 15th June 2018
12	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. TommajoZuavo, University of Pad ova	11th - 15th June 2018
13	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Tom Henderson, University of Washington, USA	11th - 15th June 2018
14	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Sebastien Deronne, Televie Conference, Belgium	11th - 15th June 2018
15	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. NatalePatriciello, CTTC	11th - 15th June 2018
16	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Peter Kouranov, NXP	11th - 15th June 2018
17	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Brecht Teynders, LXU Levven and Dr. Ann Beertenn	11th - 15th June 2018
18	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Saucez Damien, Inria	11th - 15th June 2018
19	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Bhaskaran Raman, Professor, Dept. of CSE, IITB	11th - 15th June 2018
20	Wing's Workshop on "ns-3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Amina Sljivo, MoEE, GHENT University – IMEC, Z WIJNAARDE GHENT, Belgium	11th - 15th June 2018



21	Wing's Workshop on "ns - 3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Yue Li, Telecom ParisTech, France	11th - 15th June 2018
22	Wing's Workshop on "ns - 3 Annual Meeting 2018 (WNS3 - 2018)"	Workshop	Dr. Mukulike Meity, IIIT Delhi Okhlaphase - 3	11th - 15th June 2018
23	Recent Trends in Power Systems Operation and	TEQIP-III Sponsored Workshop	<p>1) Prof. D. Thukaram, Retired Professor, Department of Electrical Engineering, Indian Institute of Science (IISc), Bangalore.</p> <p>2) Dr.GurunathGurralla, Assistant Professor, Department of Electrical Engineering, Indian Institute of Science (IISc), Bangalore.</p> <p>3) Dr (Mrs). AnupamaKowli, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Bombay (IIT Bombay).</p> <p>4) Dr. Pavan Kumar Pothapragada, Director, Simlife Electric Private Ltd. Bangalore.</p> <p>5)Dr.Suryanarayana Doolla, Associate Professor, Department of Energy Science and Engineering, Indian Institute of Technology Bombay (IIT Bombay).</p> <p>6) Dr. PriyaRanjan Mishra, Principal Scientist, Philips - India, Philips Lighting Research.</p> <p>7) Dr. Ravikumar Bhimasingu, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Hyderabad (IIT Hyderabad).</p>	11th - 15th June 2018

			<p>8) Dr. V. Seshadri Sravan Kumar, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Hyderabad (IIT Hyderabad).</p> <p>9) Dr. Dheeman Chatterjee, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Kharagpur (IIT Kharagpur)</p> <p>10) Prof. B. G. Fernandes, Professor, Department of Electrical Engineering, Indian Institute of Technology Bombay (IIT Bombay).</p>	
24	A one-week Short Term Course (STC) on ' <b>Power Converter Design</b> ' Jointly with NITK-STEP.	STTP	Experts from PantechProEdPvt. Limited', Chennai.	7-11 June 2018.
25	A five days Short Term Course (STC) on ' <b>Advanced Industrial Automation</b> '	STTP	Experts from INDWELL Automation, Pune.	21-25 June 2018
26	Sensors and Signal Processing	Expert Lecture	Dr. Ashok Rao	January 12, 2018
27	Smart Campus: IoT Solutions for Utility Management	Workshop	Prof. M.S. Mohan Kumar IISc, Bangalore	February 16-17, 2018
28	2 day Hands-on Training Programme on IoT	Training Program	Mr.Ganesh Shankar Fluxgen Engg.& Technologies	February 23-24, 2018
29	Brain Signal Processing Measuring a millimeter with a meter Scale	Expert Lecture	Dr. Parvat Mandal Dr. Deepika Shukla	March 8-10, 2018
			Prof. Shanti Pavan	March 9, 2018
30	Neural prostheses for amputees and patients with spinal cord injuries	Expert Lecture	Prof. John Mathews	March 28, 2018

31	Optimization Techniques for Signal Processing and Network Communication	STTP	<p>Prof.Madhu Belur, Electrical Engg. Dept. IITB, Mumbai</p> <p>Prof. Prasanna Chaporkar, Electrical Engg. Dept. IITB, Mumbai</p> <p>Prof.Swagatam Das, E&amp;C Sciences Unit, ISI, Kolkata</p> <p>Dr. Jagadish Chand Bansal, Applied Maths, South Asian University, New Delhi</p> <p>Dr Ashuthosh Kar, E&amp;C Engg. IIITDM, Kancheipuram, Tamil Nadu</p>	June 14-18, 2018
32	Software: Science, Engineering & Technology	Expert Lecture	Prof. Anil Kumar Tripathi Dean (Resource & Alumni) IIT-BHU, Varanasi	08-01-2018
33	AMD India, Bangalore sponsored "AMD Tech Day" 2018	Workshop	<p>Dr. Prakash S RaghavendraPMTS, AMD Bangalore</p> <p>Ms. Mahalakshmi HR, AMD Bangalore</p>	23-03-2018
34	High Performance Computing	Workshop, sponsored by TEQIP III conducted by Prof. Ananthanarayana V.S. and Mr. Dinesh Naik	<p>Mr. Somanath Meharana Dell EMC, Bangalore</p> <p>Mr. Ashish K Singh Dell EMC, Bangalore</p>	06-04-2018
35	IPv4 Networking Fundamentals	Short Term Program		19-03-2018 To 23-03-2018
36	Curriculum Revision	Workshop	<p>Prof. M. Narasimha Murty IISc, Bangalore</p> <p>Prof. Shrisha Rao IIIT, Bangalore</p>	27/04/2018



			Dr. Dibyendu Das Senior Fellow, AMD, Bangalore	
			Mr. Rudramuni B VP/Center Head, Dell EMC, Bangalore	
37	Intellectual Property Rights	Workshop, sponsored by TEQIP III, Conducted by Dr. Sowmya Kamath	Prof. M Padmavathi, IIT KGP, Prof. Sudhir Kumar Jain	13/4/2018
38	5th National Conference Refrigeration and Air conditioning	Conference	Prof S S Murthy	24-26 May 2018
39	International Conference on Design, Materials and Manufacturing	Conference	Prof. B. Gurumoothy, IISC Bangalore	29-31, Jan 2018
40	Towards realization of all-Electric semiconductor Datta-Das spin field effect transistor.	Seminar	Dr.Partha Pratim Das Dept. of Physics NITK	02/01/2018
41	Ultrafast Demagnetization dynamics in multicomponent systems	Expert Lecture	Dr. Sakshath S Technische Universitat Germany	12/01/2018
42	Many body effects on Optical Properties of Graphene.	Expert Lecture	Prof. Subhasis Ghosh School of Physical Science JNU, New Delhi.	02/05/2018
43	First Principles Calculations: The glue that binds materials, models & mechanism.	Expert Lecture	Prof. Indra Dasgupta	02/05/2018
44	Physics Training & Talent Search (PTTS)-2018	Workshop	1. Prof. G. Ravindra Kumar, TIFR Mumbai 2. Dr. Bhas Bapat, IISER Pune 3. Dr. S. Sridhar, IGCAR Kalpakkam 4. Dr. Kalavathi Sridhar, IGCAR Kalpakkam	21/05/2018 to 10/06/2018

			<p>5. Dr. Koushik Dutta, Saha Institute of Nuclear Physics, Kolkata</p> <p>6. Dr. Gangineni Ramesh Babu, Pondicherry University</p> <p>7. Dr. Ayyappan, Sastra University Tanjore</p> <p>8. Dr. Preethi Meher, Central University Tamilnadu</p> <p>9. Sr. Shivakumar Jolad, IIT Gandhinagar</p>	
45	Curriculum Workshop	Workshop	<p>Dr. K.Murali Professor, Ocean Dept. IIT Madras</p> <p>Dr. K.P. Sudheer Professor, Environment and Water Resources Engineering Division, IIT, Madras</p> <p>Dr. D. Nagesh Kumar Dept. of Civil Engg., IISc., Bengaluru</p>	28.04.2018
46	Concrete for Neutron Radiation Shielding - Some Experiences	2nd International Conference on Advances in Concrete, Structural and Geotechnical Engg., ACSGE-2018	Dr. Mattur C. Narasimhan	Feb 26-28, 2018
47	Valedictory Address	One-day National Conference on Smart and Sustainable Construction, SASC 2018	Dr. Mattur C. Narasimhan	12th May 2018
48	Karnataka State Road Transport Corporation and Sustainable Public Transport Undertaking	Expert Lecture	Mr. Deepak Kumar M., Divisional controller, Mangalore Division, Karnataka State Road Transport Corporation.	28th March 2018

49	Springer Author Workshop	International Conference	Dr. Akash Chakraborty	20th June 2018
50	Sustainable Construction and Building Materials	International Conference		18-22 June 2018
51	Algebraic Graph Theory	Workshop	Director	January 25-30, 2018
52	NITK-HEIG VD- BIT, Student Exchange Programme 2018	<p>This years' Summer University was held at the Beijing Institute of Technology (BIT), China from 28th June 2018 to July 14th 2018. Six students and one faculty from the SOM and students and faculties from Heig-VD, Switzerland and BIT, China took part in the program.</p> <p>The BIT-NITK-Heig VD program involved visits to various industries and studying the prospects and challenges of the work environments and quality of work life. Some of the industries visited were Assa Abloy Tianming Beijing (Door) Co,Ltd , Beijing CP Egg Industry, Beijing JvLanXing Breeding Professional Cooperatives among others. The exchange program lasted for 15 days.</p>		

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



**GIAN Programmes Conducted:**

Sl. No	Title	Chief Guest	Date
01	Advance level course on Introduction to Software Defined Networking	Dr. Pradeep K Kondamuri Senior Product Architect Ciena Corp., San Francisco, USA	26-03-18 to 30-03-18
02	Computer Application and Data Analysis in Mining and Other Core Industries	Dr. Snehamoy Chatterjee, Assistant Professor Department of Geological and Mining Engineering and Sciences, Michigan Technological University USA	March 12-16, 2018
03	Practical Analysis of Environmental Data with Open Source Software (R and QGis)	Dr. Georg Hörmann, Senior Scientist, Dept. of Hydrology and Water Management, Kiel University, Germany	5-9 Feb, 2018
04	Geostatistical Analysis of Environmental Data	Dr. Pierre Goovaerts, Chief Scientist at BioMedware Inc., Courtesy Professor, Soil and Water Science Department, University of Florida, USA	February 19 - 23, 2018
05	Construction Pollution and Management	Prof. Prashant Kumar	12-16 Feb 2018
06	Concrete: Microstructure Characterisation	Prof. Narayana Neithalath	18-22 June 2018

*Note: This is not an exhaustive list*

**NITK-Alumni Centre for Excellence (ACE):**

In order to bridge the gap between academia and industry and also to groom their juniors in various fields, The NITK Surathkal Alumni Association has planned to construct **an NITK-Alumni Centre for Excellence (ACE)** with state-of-the-art infrastructure facilities at a cost of Rs. 25 crores to be completed by 2020. This to mark celebration of Diamond Jubilee year of NITK. This centre will be the gift from alumni to their alma mater on its diamond jubilee year. The foundation-laying ceremony was held on **4th Aug 2018** at the NITK Campus. Foundation Stone was laid by **Dr. Satya Pal Singh, Honourable minister of State for HRD and Water Resources, River development and Ganga Rejuvenation**

- Features of NITK - ACE are :
  - Multi-skilled development centre
  - Placement and Industry Interaction Centre for career development
  - Innovation Centre (Google style). Incubation and Start-up Centre
  - World class accommodation for corporates
  - Offer internships which will be done by resource persons facilitated by the association.
- The Centre wants to train students on following :
- To crack competitive exams like IAS/IPS, for government services and others.
  - To pursue higher studies in engineering abroad and to pursue MBAs.
  - To groom students who want to get into the corporate world.

### Patents Filed:

Sl. No	Names of Authors	Title of Patent	Patent No	Filed/Granted on DD-MM-YYYY	Status
01	Dr. Keyur Raval Vishnu M Raj Mohan Balakrishnan	Removal of Heavy Metals From Contaminated water by Adsorption Using Melanin Bound Activated Carbon	201841000695	6th January 2018	filed 2018
02	Dr. Keyur Raval Rohit Kalnake Prof. D V R Murthy	Rotating Packed Disc Bioreactor	201841000694	6th January 2018	filed 2018
03	Dr. Anish S Kiran K N	Dual Fence with Tapered Trailing Edge For Turbine/Compressor Blade Passage	201841003526	30th January 2018	filed 2018
04	Prof. G. Srinikethan Smruthi G. Prabhu Smitha Hegde	A Composition and Method of Removal of Heavy Metals from Contaminated Water	201841008169	6th March 2018	filed 2018
05	Dr. Anish S Prashantha B	Swirl Generator for Human Arterial Network	201841010102	20th March 2018	filed 2018
06	Dr. Vasudeva Madav Dr. Saikat Dutta Akhil Mohan	Method , System and Apparatus for Upgrading tyre Pyrolysis Oil	201841018816	19th May 2018	filed 2018

*Note: This is not an exhaustive list*

### MOUs Signed:

Details of all MoUs			
Sl. No	Date of Signing MOU Duration	Organization/Institute	Domain
01	30 May 2018 (3Years)	Eaton Technologies Pvt. Ltd	Additive Manufacturing Research and development



02	19th April 2018 3 Years	Wadhwani Operating Foundation, Los Altos, California, USA	Entrepreneurship Development - Institutional Association MOU
03	19th April 2018 3 Years	Arya Technocrats, Belagavi	Collaborative research
04	5th April 2018 5 Years	Universita Degli Studi di Pavia, Italy	Student exchange, Collaborative research
05	5th March 2018 3 Years	RAMBAL INDIA LIMITED, Thiruporur, Tamil Nadu	Automobile suspension (IMPRINT Project)
06	18th January 2018 5 Years	University of District of Columbia (UDC) School of Engineering and Applied Science Washington, USA	Academic and Research Collaboration
07	18th January 2018 3 Years	Internshala	Student Internship
08	9th January 2018	" Gheorghe Asachi" Technical University of Iasi, Romania Under Erasmus+Programme	Faculty and student exchange Programme In the area of manufacturing, Materials and processing

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

### Inauguration of eLibrary Complex:

eLibrary Complex was inaugurated by Dr. Satya Pal Singh, Union Minister of State for HRD:



NITK Central Library's eLibrary Complex was inaugurated on 04.08.2018 by Dr. Satya Pal Singh, Union Minister of State for HRD and Water resource, River Development and Ganga Rejuvenation. eLibrary Complex will have the State-of-the-Art modern IT facilities, 2 Cyber Libraries with 50+ PC's at each floor to conduct hands-on training, 2 Seminar Halls of 50+ Capacity each, 8 Discussion Rooms, dedicated Research Scholars Section, Digital Reading Rooms, Social Space, Makers Space etc. catering to more than 6000 on campus library users 24X7 along with in-housed cafeteria. The event was widely covered in the media



### **IDR@NITKS launched by Chairman, BoG on 6th July 2018.**



Dr. K. Balaveera Reddy, Chairperson of Board of Governors of NITK, Surathkal has launched Institutional Digital Repository of NITK, Surathkal (IDR@NITKS) on 6th July 2018. IDR@NITKS established using DSpace open source software on Linux platform, where all the publications (journal articles, book chapters, conference papers, project reports, book reviews, invited talks, etc.) of the NITKS community will be stored in the repository and the digital collection will be available for search through various key access points like author, title, subject etc.

This service enables the Institute community to archive their preprints, post prints and other scholarly publications. In keeping with the objectives of the open access movement, NITKS expect this service to facilitate the institute researchers in self archiving and long-term preservation of their scholarly publications, provide easy access to these publications world-wide and improve impact of their research. While IDR@NITKS can be accessed by anybody, submission of documents to this archive is limited to the NITKS community.

This institutional repository also helps to get the research output of the institute widely disseminated. This will enhance the institute reputation and thus its ability to attract high quality researchers and further research funds. Further, as the content in DSpace repository grows, it can contribute significantly to institutional knowledge management, for example, in terms of improved knowledge re-use and collaborative research.

**URL to access IDR@NITKS is <http://idr.nitk.ac.in>**

### **TEQIP-III**



**Honourable Chairman, BoG and Director addressing the new faculty members during Pedagogy training programme, 7-8, September 2018.**

The Project TEQIP-III is part of the long term Technical Education Quality Improvement Programme and aims to scale up & support ongoing efforts of the GOI to improve quality of technical education and enhance existing capacities of the Institutions. TEQIP-III project will focus on the 'Twinning Arrangements to Build Capacity and Improve Performance of Focus Institutes of Hill States, Low Income States and North East States.



**Prof. Lakshman Nandagiri, addressing the students of Civil Engineering of Govt. Engg. College, Jhalawar, Rajasthan in Fluid Mechanic Laboratory at NITK Surathkal**

Together with the above focussed objective, TEQIP-III also financially

#### **Supports :**

1. Procurement of Goods (Equipment, LR's/Software)
2. Improve Student Learning
3. Research Assistantship
4. Graduate Employability
5. Faculty/Staff development and motivation
6. Research and Development
7. MOOCS and Digital learning
8. Mentoring/Twinning System
9. Institute Reforms, Governance
10. Management Capacity Development
11. Hiring Consultancy Services
12. Industry-Institute Interaction
13. Operating Cost

Under the above provisions Faculty members, Non-teaching Staff and UG, PG, & Ph.D students have been availing financial support. A sum of Rs. 1,88,22,951.00 has been spent under TEQIP-III up to 15th September, 2018.

## **DIGITAL INITIATIVES**

**Following digital initiatives are undertaken:**

**I. Academic Centric Student Information System (ACSIS):** In-house software development for UG, PG and PhD students academics with following modules and are in IRIS (<https://iris.nitk.ac.in/hrms/>)

#### **Environments :**

- a. Admission
- b. Registration
- c. Course Management
- d. Attendance
- e. Feedback
- f. Evaluation
- g. Grading
- h. Following modules of ACSIS are in development / testing stage:
  - i. Academic Certification Management
  - ii. Calendar & Event Management
  - iii. Passive Data Management

**2. Online Payment System:** In-house s/w development for online financial transaction to the Institute

**3. Infrastructure & Asset Management (Under test):** To manage and monitor Institute infrastructure



4. **Faculty Self Appraisal System** (Under Test): In-house software development with a provision to (a) input the academics / research / publications / outreach activities for each faculty (b) retrieve summarized data as per the need during the academic year (Query handler).
5. **Sponsored Project Management System**: In-house software for up-to-date information about new / running / completed projects with financial status
6. **Placement System**: Portal to manage Institute placement activities
7. **eOffice Lite (100 users)**: Software from NIC is procured for effective inter-office transactions within the Institute. The customization is under progress.

List of Projects sanctioned from January 2018					
PROJECT NAME	DEPARTMENT	DATE OF SANCTION	ENDING DATE	SANCTIONED AMOUNT (Rs.)	INVESTIGATOR
Ministry of Water Resources: <b>Impact of climate change on water resources in river basins from Tadri to Kanyakumari</b>	Department of Applied Mechanics and Hydraulics	09-02-2018	2021	60,90,556	Prof. A Mahesh
SERB: <b>Conjunctive use of surface water and ground water management: A new framework for strategic decision making</b>	Department of Applied Mechanics and Hydraulics	05-03-2018	2021	30,33,200	Dr. Ramesh
SERB: <b>Effect of frictional heat on coefficient of friction during full slip of Al6061 T6 Hertzian contacts</b>	Department of Applied Mechanics and Hydraulics	17-03-2018	2020	27,12,000	Dr. Vadivuchezhian Kaliveeran



SERB: <b>Development of a sustainable technology to produce oxalate depleted starch from Taro corms by AISTDF</b>	Department of Chemical Engineering	01-02-2018	2021	25,44,000	Dr. Prasanna B D
Alumni EEE 1988 batch: <b>DC home -Solar based off grid converter design development of 48V system</b>	Department of Electrical and Electronics Engineering	23-3-2018	2020	1,10,000	Dr. Sureh Y
Alumni EEE 1988 batch: <b>Silent Speech Interface developments by combining physiological signal processing with Image processing</b>	Department of Electrical and Electronics Engineering	23-3-2018	2020	1,05,000	Dr. Krishnan
Alumni EEE 1988 batch: <b>Android based home automation (Light , fan, washing machine and TV control through the phone)- electricity load management</b>	Department of Electrical and Electronics Engineering	23-3-2018	2020	1,15,000	Dr. B. Venkatesa Perumal
Rator Design Technologies Pvt Ltd-Voyager: Solar tracker monitoring system	Department of Electrical and Electronics Engineering	22-3-2018	2023	2,00,000	Dr. B. Venkatesa Perumal
SERB: <b>Applications of kneading Theory in Iterative Root problems</b>	Department of Mathematical And Computational Sciences	12-03-2018	2021	4,18,010	Murugan

<b>VGST: Pre-operative damage assessment in orthopaedic surgery using 3D printing to minimize healing time</b>	Department of Mechanical Engineering	24-05-2018	2020	5,00,000	Dr. M. R. Doddamani
<b>SERB: All solution processed transparent low temperature synthesized Indium Zinc Tin Oxide based high performance thin film transistors for active matrix displays</b>	Department of Metallurgical and Materials Engineering	05-12-2016-2018	2018	19,80,000	Dr. Saumen Mandal
<b>SERB: Corrosion and Impedance study of Ti-Nb alloy forms developed by PM techniques</b>	Department of Metallurgical and Materials Engineering	08-09-2016-2018	2018	18,81,000	Dr. Shashi Bhushan Arya
<b>FIST: To augment the research facilities in the Dept. of Metallurgical &amp; Materials Engg.</b>	Department of Metallurgical and Materials Engineering	13-03-2018	2023	2,97,00,000	Dr. Udaya Bhat K.
<b>KS&amp;Tech: Development and Characterization of Advanced Solar Cell</b>	Department of Mining Engineering	19-01-2018	2020	0	Ch S.N. Murthy
<b>Mysore Minerals: Development of a new type of aero cyclone for the dry separation of the minerals</b>	Department of Mining Engineering	17-03-2018	2021	24,00,000	Harsha Vardhan
<b>ICSSR: Sustainability Reporting and Indian Companies A cross sectional study to evaluate the extent of GRI Compliance</b>	School of Management	15-1-2018	2019	2,50,000	Dr. Suprabha K. R

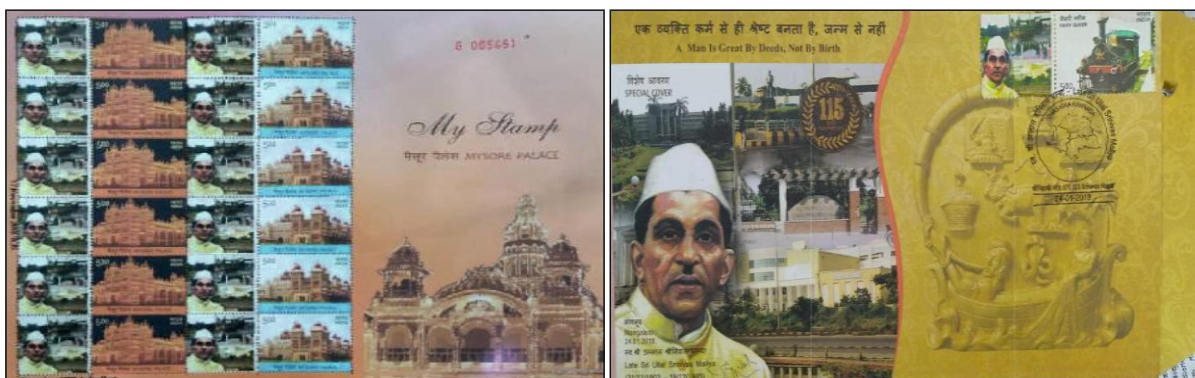
ICSSR: <b>A study of adaptation to technological innovation in agriculture to mitigate climate change effects and its impact on rural farmers</b>	School of Management	10-01-2018	2020	8,60,000	Dr. Pradyot Ranjan Jena
The Leibniz Universitat Hannover, Germany: <b>Coffee certification and food security in Araku Valley in India</b>	School of Management	01-06-2018	2019	5,80,000	Dr. Pradyot Ranjan Jena

*Note: This is not an exhaustive list*

### Activities at the Institute:



**Inauguration of Additional Blocks of Departments by Nobel Laureates - 2018**  
(Prof Ada E. Yonath, Nobel Laureate in Chemistry [2009] and Prof. Serge Haroche, Nobel Laureate in Physics [2012]).



The Karnataka postal circle released a special cover commemorating the 115th Birth Anniversary of Great Visionary Late Ullal Srinivasa Mallya (11 November 1902 – 19th December 1965) on 24th January, 2018 at 9.00 AM at Srinivasnagar Post Office, Surathkal, Mangalore situated at NITK, Surathkal Campus followed by a function in the Seminar Hall, Lecture Hall Complex A.



## Bharat Darshan 2018



Bharat Darshan was conducted on 26th January 2018, it is that culture exhibition where all students of NITK come together and celebrate the diversity of our country. Students showcase the culture of their state through different art-forms like dance and drama. All in all it strengthens the sense of pride we take in our country and rebuild our patriotism as we enjoy mesmerizing performances on stage. This bright and colourful extravaganza showcases brilliant performances by groups representing the various states of India, and is held on the occasion of Republic Day. 14 teams, namely Karnataka, Tamil Nadu, Andhra Pradesh, Uttarakhand, Uttar Bharat, Telangana, West Bengal, Rajasthan, Gujarat, Maharashtra, Kerala, North East, Bihar, UP & MP will be participating this year.

## Ek Bharat Shreshtha Bharat Program

Under this program of MHRD, Uttarakhand and Karnataka have been paired to showcase their culture. The programme aims to give a boost to the existing cultural connect between Uttarakhand and Karnataka and enhance interaction between people living in different states. The knowledge of culture, traditions and practices of different states will lead to an enhanced understanding and bonding between each other thereby strengthening the unity and integrity of India. Bharat Darshan is the perfect platform to showcase this amalgamation.

Ek Bharat Shreshtha Bharat has been one of the major flagship programme of Govt. of India to bring in cultural integration of the country as a part of the vision to build a New India by 2022. EBSB is being spear headed by the Hon'ble Prime Minister of India for promoting National Integration through mutual appreciation of the diverse culture of the country.

## INCIDENT 2018



**INCIDENT 2018** was held over 4 days during 28th Feb to 4th March 2018. More than Three thousands of students participated in the Annual Cultural Extravaganza in numerous events, conducted in diverse fields of Fine arts, Photography, Aerobics, Dance, Drama, Fashion shows, DJs, Beach events, Incident Idol competition, Vocal-Instrumental singing competitions, (solo & Group) comedy nights, sand art demonstrations, Informalz, quiz competitions, world fests, Rangoli competitions, workshops on Photography, Filmmaking, Hypnotisms, Rangoli designing, different dances viz. Bhangra, Classical, Zoomba etc.



The new addition and attraction of INCIDENT 18 was the Incident Idol competition which attracts the youth at large as the competition was neck to neck. Another breath-taking performance was displayed by the Benny Dayal a mesmerizing performance.

**INCIDENT18** also thrilled the youths by means of Slam Dunk; a national basketball championship and Spin Shock; Inter collegiate Throw Ball tournament conducted. The main shows of INCIDENT18 edition were DJ night, Laughter night, Karaoke night, World fest, Western night.



### Yoga Day Celebration 2018



**Fourth International Day of Yoga** was celebrated at National Institute of Technology Karnataka Surathkal on 21st June 2018 at its premises with full of enthusiasm and healthy spirit. The Indoor Badminton Hall (Sports Complex) of the Institute was converted to a Yoga hall with mats and turfs. The programme started at 9 a.m. with a massive crowd of around 200 students. NITK faculty and staffs and their family members also participated in the programme.

### NSS Annual Camp 2018



NSS Annual Camp was organized in GFGC, Haleyangadi during 25th to 28th January 2018, All the volunteers participated in the camp actively and the camp was grand success.



### Ring Presentation 2018

Ring Presentation was organized during 18th April 2018, in the Main Ground of the Institute. 1500 students were awarded with Silver Ring as a memory of NITK student.

### All India Inter NIT Sports meet 2018



NITK Surathkal organized, All India Inter NIT Sports in Handball, Hockey, Kabaddi and Swimming at our Institute during 12th to 14th January, 2018. More than 500 students from other NITs (22 Men Kabaddi teams, 8 Hockey teams, 8 Handball teams & 12 Swimming Men and Women teams) participated in this Inter NIT sports. Participants were being provided with free Boarding and Lodging facilities. During 'INCIDENT' National level cultural Festival, DPES organized "Slam Dunk" Inter Collegiate Basketball and "Spin Shot" Inter Collegiate Throwball (Women) Tournament inviting teams from all over India. Recreation committee is conducting inter branch, inter year and inter class competitions in many games utilizing all facilities available in the DPES. Phoenix an intra mural sports competitions has been conducted in the even semester this year also.

#### Result of All India Inter NIT Sports meet 2018

Sl no	Game	Team Name
01	<b>KABADDI Men (19 Teams Participated)</b>	
	Winners	VNIT Nagpur
	Runners	NIT Rourkela
	III Place	NIT Calicut
	IV Place	SVNIT Surat
02	<b>HANDBALL Men ( 8 Teams Participated )</b>	
	Winners	NIT Trichy
	Runners	NITK Surathkal
	III Place	NIT Calicut
	IV Place	NIT Raipur
03	<b>HOCKEY Men (8 Teams Participated )</b>	
	Winners	NIT Jamshedpur
	Runners	NIT Calicut
	III Place	NIT Rourkela
	IV Place	NITK Surathkal
04	<b>SWIMMING Men Team Championship</b>	
	Winners	NITK Surathkal
	Runners	NIT Trichy
05	<b>SWIMMING Women Team Championship</b>	
	Winners	NIT Trichy
	Runners	VNIT Nagpur

**SIGNIFICANT ACHIEVEMENTS:** Physical Education and Sports: Institute teams formed, trained and coached were allowed to participate in different Taluk, District, State and National level Inter University level tournaments/ Competitions.



1. DKCA Cup Intercollegiate Cricket tournament for Professional Colleges: Runners-Up

2. Dasara Tournaments: Basketball(Men) District: Winners, Badminton(Men & Women) District Runners-up, Table Tennis (Men) District: runners-up.

3. DK District Basketball Association conducted James Neighsmith Intercollegiate Basketball Tournament: Institute Men Basketball team was Runners-Up. B S A Kumar Inter Collegiate Basketball Tournament Conducted by Yenepoya University: Institute Men Basketball Team were Runners-Up.

4. All India Inter NIT Sports in Handball, Hockey, Kabaddi, and Swimming(Men and Women) have been organized by our Institute: Our Institute Hockey (Men): 3rd runners-Up, Handball( Men): Team Championship Runners-Up, and Swimming (Men) were Team Championship Winners, Swimming (Women) Team Championship Runners-Up and Swimming overall championship winners. Other results of All India Inter NIT Tournaments held at other NITs: Athletics held at MNIT Jaipur, Prajwal won gold medal in 200Mts & 400Mts run, Sandeep Kumar won Gold medal in Shot Put. Body Building(Men), Power Lifting(Men), and Weight Lifting(Men)- Sandeep Kumar won One Gold and One Silver Medals, Inter NIT Sports held at NIT Warangal, Badminton (Men)- II Runners-Up, Basketball (Men) II Runners-Up, Tennis (Men): Wnners. All India Inter NIT Sports held at NIT Kurukshetra: Chess(Men) - Winners.



5. 3 District open Tennis tournament held at Bramhavar, Institute team won I and II place in Singles and I place in doubles.

6. Karavali Staff Intercollegiate Tennis tournament held at KMC Manipal: Dr. D Hariprasad Dasari : Winner.

7. Revels cup, All India Inter Engineering collegiate Swimming competitions held at Manipal, Institute of Technology, our Institute won 2 gold, 3 silver and 19 bronze medals. Chess Team won II place.

8. Adrenalin, Inter Professional collegiate Sports held at Father Muller Medical college, Kabaddi and Chess teams were Champions.



**PLACEMENTS 2017-2018**  
**PLACEMENT STATISTICS DURING THE YEAR 2017-18**  
 Data as on 30.06.2018

DEPARTMENT	ELIGIBLE STUDENTS	PLACED	% PLACED
<b>B.Tech</b>			
CIVIL	72	58	80
CHEMICAL	38	37	97
COMPUTER SCIENCE	94	94	100
ELECTRONICS & COMMUNICATION	94	89	95
ELECTRICAL & ELECTRONICS	89	83	93
INFORMATION TECHNOLOGY	93	92	99
MECHANICAL	123	113	92
METALLURGICAL & MATERIALS	28	26	93
MINING	37	33	89
<b>Total B.Tech</b>	<b>668</b>	<b>625</b>	<b>94</b>
<b>M.Tech</b>			
<b>CIVIL</b>			
STRUCTURAL ENGG.	24	9	38
GEO TECH ENGG	13	2	15
ENVIRONMENTAL ENGG	24	6	25
TRANSPORTATION SYSTEMS ENGG	17	4	24
CONSTRUCTION TECH & MGMT	17	3	18
<b>APPLIED MECHANICS &amp; HYDRAULICS</b>			
MARINE STRUCTURES	15	9	60
WATER RESOURCE ENGG & MGMT	9	2	22
REMOTE SENSING & GIS	16	1	6
<b>CHEMICAL</b>			
INDUSTRIAL POLLUTION CONTROL	5	2	40
CHEMICAL PLANT DESIGN	5	1	20
INDUSTRIAL BIOTECHNOLOGY	14	10	71
<b>COMPUTER SCIENCE</b>			
COMPUTER SCIENCE & ENGG	19	18	95
INFORMATION SECURITY	22	22	100
<b>ELECTRONICS &amp; COMMUNICATION</b>			
VLSI	21	14	67
COMMUNICATION ENGG	17	10	59
<b>ELECTRICAL &amp; ELECTRONICS</b>			
POWER & ENERGY SYSTEM	15	13	87
<b>MECHANICAL</b>			
THERMAL ENGG	13	7	54
MANUFACTURING ENGG	13	4	31
MECHATRONICS	17	11	65
DESIGN & PRECISION	15	7	47



METALLURGICAL & MATERIALS			
PROCESS MET.	4	3	75
MATERIALS ENGG	14	4	29
NANOSCIENCE AND NANOTECHONLOGY	3	0	0
MATHEMATICAL & COMPUTATIONAL SCIENCE			
COMPUTATIONAL MATHEMATICS	11	8	73
<b>Total M.Tech</b>	<b>362</b>	<b>176</b>	<b>49</b>
MCA	82	70	85
MBA	40	27	68
Msc (Chemistry)	20	4	20
Msc (Physics)	20	1	5
<b>TOTAL</b>	<b>ELIGIBLE STUDENTS</b>	<b>PLACED STUDENTS</b>	<b>TOTAL % PLACED</b>
	<b>1192</b>	<b>903</b>	<b>76</b>
<b>Total Companies Visited: 269</b>	<b>Maximum salary Rs. 36.69 LPA</b>		
<b>Average Salary UG: Rs. 9.08 LPA</b>		<b>UG: 94%</b>	<b>PG: 53%</b>

## Retired (Teaching & Non Teaching Staff)

### Retired Faculty

Sl. No.	Name	Designation	Department	Date of Retirement
01	Suresh Kumar Y	Associate Professor	Mechanical Engineering	12.02.2018
02	Appukuttan K. K.	Professor	Mechanical Engineering	30.06.2018

### Retired Non – Teaching Staff:

Sl. No.	Name	Department	Date of Joining	Date of Retirement
01	Sri Jaya Devadiga	Mechanical Engineering	16.01.1986	28.02.2018
02	Sri Alexander Francis D' Souza	Mechanical Engineering	23.01.1981	28.02.2018
03	Sri Narayana Devadiga	Central Library	08.01.1980	31.05.2018
04	Sri Nagesh Devadiga	School of Management	03.02.1994	31.05.2018
05	Sri I Ganesh	MACS	17.12.1979	31.05.2018







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