

# Samvid

A Biannual Newsletter of IIT Tirupati



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## IIT Tirupati Transit Campus Project bags GRIHA Council Exemplary Performance Award

IIT Tirupati Transit Campus Project received the Exemplary Performance Award under the category Sustainable Materials and Technologies by Green Rating for Integrated Habitat Assessment (GRIHA) Council for the design and construction of an eco-friendly campus with sustainable construction materials and technologies. The award was received by the Director on December 12, 2018 in the 10<sup>th</sup> GRIHA Summit held at India Habitat Center, New Delhi.

In the transit campus, the five four-storey hostel buildings, to accommodate 750 students, have been built using Glass Fibre Reinforced Gypsum panels as both wall and roof elements. Gypsum is a waste product from chemicals and fertilizer factories. The use of bricks and plastering of walls is completely eliminated. The quantity of cement and steel used is also reduced. The flooring in the laboratory buildings



has been made with polished concrete. These high strength and mirror finished floors completely eliminate the use of tiles. In the hostels and class room buildings, 48 volts DC light and fan fittings have been provided. These reduce the consumption of energy by 30%. A 220 kW solar roof top plant has been set up. The wastewater is treated in STP and recycled for flushing and gardening purpose. The hot water is supplied through solar water heaters. High volume low speed (HVLS) fans have been installed in the laboratories and dining hall.

## An International Conference on Industry 4.0- Opportunities, Challenges, and Preparedness

Confederation of Indian Industry (CII) in collaboration with IIT Tirupati, and Texas A&M University, USA organised the Industry 4.0 Conference on December 17-18, 2018. About 240 delegates attended the conference from India and abroad. The sessions were held at the Hotel Marasa Sarovar Premiere, Tirupati.



## MoUs Signed by IIT Tirupati

### Ground Water and Water Audit Department, Government of Andhra Pradesh

IIT Tirupati entered into an MoU with Ground Water & Water Audit (GW&WA) Department, Government of Andhra Pradesh, on November 02, 2018 chiefly to promote academic collaboration between GW&WA Department and IIT Tirupati in the mutually beneficial areas of research. The major focus of the collaborative efforts will be on evaluating and developing techniques for groundwater sustainability in the face of increased demand for agricultural water and climate change.



### CSIR - National Environmental Engineering Research Institute, Nagpur

IIT Tirupati and the CSIR-National Environmental Engineering Research Institute, Nagpur (NEERI) signed an MoU on the 3rd day of December 2018 in the spirit of intellectual and scholarly exchange. The major thrust areas of research are water and wastewater treatment, solid and hazardous waste management, air quality monitoring, modelling and management, environmental health and assessment, environmental impact assessment, climate science and policy, and sustainable development practices.



### CSIR - Central Electronics Engineering Research Institute (CSIR-CEERI), Pilani

IIT Tirupati and CSIR-Central Electronics Engineering Research Institute (CEERI), Pilani signed an MoU on November 12, 2018 to collaborate in the areas of mutual interest. The major thrust areas of research are cyber-physical Systems, smart sensors, microwave devices with focus on flexible and non-Si Electronics, optoelectronics, smart infrastructure, energy, and Internet of Things (IoT).



### Texas A&M Engineering Experiment Station (TEES)

IIT Tirupati and Texas A&M Engineering Experiment Station signed an MoU on December 17, 2018 for the academic collaboration in the areas of mutual interest. The major thrust areas of research are advanced manufacturing, materials, mechanics and cyber-physical systems.



## Invited Lectures/Talks held at IIT Tirupati

**Dr. Srinivas Padmanabhuni**, Ex-President, ACM India, "Data Science for Software Engineering", September 14, 2018.

**Jitendra Theti**, AVP at Aricent, "Cloud Computing", September 19, 2018.

**Dr. Ponnurangam Kumaraguru**, IIIT Delhi, "Social Media Analytics", September 26, 2018.

**Sachidananda S Javli**, Director, Cyber Security, PwC India, "Cyber Security - Overview, Incidents Services, Risks in Evolving Technologies & Trends", October 5, 2018.

**Dr. Nishanth Chandran**, Microsoft Research, "Many Faces of Cryptography", October 12, 2018.

**Dr. Sriram Chaudhury**, Principal Consultant, Wipro, "An Overview of Natural Language Processing Tools and Applications", November 2, 2018.

**Derick Jose**, Co-founder of Flutura Decision Sciences, "Future of AI, and How can Students Enhance their Placement Outcomes?", November 16, 2018.

**Dr. Sumanta Mukherjee**, Research Scientist, IBM Research, "Machine Learning & Interpretability", November 30, 2018.

## Faculty and Staff News

### New Faculty Entrants

With the joining of the following faculty members, the faculty strength of IIT Tirupati reaches 67:

S. No.	Name	Department	PhD	Previous Employment
1	Arijit Sharma	Physics	RRI, Bengaluru	Post-Doctoral Fellow, Helmholtz-Institut Mainz and JGU Mainz
2	Harikrishnan Ramanan	Chemical Engineering	University of Massachusetts, Amherst, MA, USA	Engineering Manager, GE Water and Process Technologies, Singapore
3	P. Vikramkumar	Electrical Engineering	IIT Madras	Research Fellow, Nanyang Technological University, Singapore
4	Panchatcharam Mariappan	Mathematics	IIT Madras	CFD Software Development Engineer, NUMA Engineering Services Ltd, Ireland
5	Reetesh Kumar Gangwar	Physics	IIT Roorkee	Assistant Professor, VNIT, Nagpur
6	Sumit Giri	Mathematics	IMS, Chennai	Post-Doctoral Fellow, Tel Aviv University, Israel
7	Suresh Jain	Civil Engineering	IIT Delhi	Professor, TERI University, New Delhi
8	Vaneet Kashyap	HSS	IIT Roorkee	Assistant Professor, IIM Sirmaur
9	Vignesh V.	Electrical Engineering	IIT Kanpur	Assistant Research Professor, Washington State University
10	Vinay Pramod Majety	Physics	Ludwig Maximilians University, Germany	Post-Doctoral Fellow, Max Planck Institute, Hamburg, Germany

### Mr. A. V. V. Prasad joins as the first Registrar

Mr. A. V. V. Prasad served the Government of Andhra Pradesh in the A.P. State Cooperative Service for 31 years in various departments at District and State levels. Notably, he worked as Director, Social Audit of MGNREGA and as Additional Commissioner of Rural Development and as Additional Registrar of Cooperative Societies/Chief Auditor and in-charge Commissioner for Cooperation and Registrar of Cooperative Societies for the State of Andhra Pradesh. Social Audit of MGNREGA and Direct Benefit Transfer in A.P. are recognized as national models.



### New Staff Entrants

S. No.	Name	Designation	S. No.	Name	Designation
1	Santosh Kumar Sahoo	Deputy Registrar	16	Fathima Azra Fazal	JTS
2	Harikrishna Reddy M.	Assistant Registrar	17	Vijayaraj	Junior Technician
3	Dr. Venkata Ramarao K.	Medical Officer	18	Sivanathan M.	Junior Technician
4	Dr. Palakolanu Swetha	Medical Officer	19	Manugonda Sunil Kumar	Junior Technician
5	Pradeep Valan S. L.	Junior Superintendent	20	Rohith K.	Junior Technician
6	Vijay Y.	Junior Superintendent	21	Bijoy U.	Junior Technician
7	S. Venkata Narayana	JTS	22	Sabarinathan T.	Junior Technician
8	Prodduturu Dasthagiri	JTS	23	Pavalooru Midhun Kumar	Junior Assistant
9	M. Jagadeesh	JTS	24	Ramisetti Lokesh	Junior Assistant
10	Y. Suravardhanareddy	JTS	25	Venkateswara Rao Dara	Junior Assistant
11	Pujari Dinesh Khanna	JTS	26	L. Sankar Naidu	Junior Assistant
12	Donthamseeti Ravikumar	JTS	27	Avanigadda Jayagopal	Junior Assistant
13	Saichaitanyapilla	JTS	28	Mohammad Ishaq Alikhan	Junior Assistant
14	Nagarajan R.	JTS	29	Badireddi Prasad	Junior Assistant
15	Mohanapriya P.	JTS			

## New 'Sponsored Research Projects' at IIT Tirupati

S.No.	Title	Funding Agency	Principal Investigator
1	Nanomaterials based Active and Intelligent Packaging of Selected Baked, Fermented and Fried Foods	DBT	Dr. T. S. Natarajan
2	Narrow Gap Welding of 12 mm thick DMR 249A Steel using Tandem Gas Metal Arc Welding Process	Naval Research Board (NRB)	Dr. Degala Venkata Kiran and Dr. N. Venkaiah
3	Indo-German Environment Program in Rural Areas: An Integrated Climate Risk and Vulnerability Assessment in Tamil Nadu and Himachal Pradesh	University of Geneva, Switzerland	Dr. Chandra Sekhar Bahinipati
4	Centre for Sustainable Treatment, Reuse and Management for Efficient, Affordable and Synergistic solutions for Water (SUTRAM of EASY WATER) in collaboration with IIT Madras, Anna University, CSIR-CLRI, CSIR-IITR, IISER Bhopal, PRIST, and VIT.	DST, WTI	Dr. Shihabuddheen Meliyekkal

## Workshops Organised

### A Workshop on *Advances in Welding Technology*

IIT Tirupati in collaboration with Indian Institute of Welding (IIW), Chennai Chapter organised a one day workshop on "Advances in Welding Technology" in Sri City, Andhra Pradesh on November 22, 2018. Dr. Degala Venkata Kiran from IIT Tirupati coordinated the sessions for the welding engineers of the Industries located in Sri City. A total of 30 engineers participated in the workshop.



### A Workshop on *Complex Analysis and Complex Dynamics*

The Department of Mathematics organised a workshop on "Complex Analysis and Complex Dynamics for Teachers and Research Scholars" in collaboration with the 'National Board for Higher Mathematics' on December 10-22, 2018. Dr. Srijanani Anurag Prasad, and Dr. S. Rajesh convened the sessions for the participants. A total 29 teachers and research scholars from different academic institutions participated in the workshop. The workshop was held in the IIT Tirupati temporary campus building.



### A Workshop on *Academic Writing and Publishing*

The Department of Humanities and Social Sciences organised a one day workshop on "Academic Writing and Publishing" on December 17, 2018. Dr. Shashank Sinha, Senior Editor, Routledge, India, and Professor Sundar Sarukkai, NIAS, Bengaluru conducted the sessions of the workshop as resource persons. Prof. Raghuramaraju and Dr. Bharath Kumar convened the event. The workshop was held in the IIT Tirupati temporary campus building.



### A Workshop on *Wireless Connectivity through Edge Connectivity*

K. P. Naveen, Electrical Engineering, co-organised a workshop on "Wireless Connectivity through Edge Connectivity," held in conjunction with IEEE International Conference on Advance Networks and Telecommunication Systems (ANTS), Indore, December 16-19, 2018.

## Recent Faculty Publications

### Civil Engineering

- Chandrappa, A. K., R. Maurya, **K. P. Biligiri**, J. S. Rao, and N. Nath. "Laboratory Investigations and Field Implementation of Pervious Concrete Paving Mixtures." *Advances in Civil Engineering Materials*, American Society for Testing and Materials International, USA, Vol. 7, No. 1, pp. 447-462, September 2018.
- Bhatia, Nikhil, **Roshan Srivastav**, and Srinivasan K. "Season-Dependant Hedging Policies for Reservoir Operation - A Comparison Study." *Water*, 10(10), pp. 1311, September 2018.
- Venudharan, V., and **K. P. Biligiri**. "Development and Performance Analysis of Asphalt-Rubber Gap-Graded Mixtures: Study on Aggregate Gradations." *Journal of Testing and Evaluation*, American Society for Testing and Materials International, USA, pp. 1-18, November, 2018.
- Oinam, R. M.**, and D. R. Sahoo. "Using Metallic Dampers to Improve Seismic Performance of Soft-story RC Frames: Experimental and Numerical Study." *Journal of Performance of Constructed Facilities*, ASCE, 33(1), pp. 1-18, December 2018.
- Sharma, D., and **S. Jain**. "Impact of Intervention of Biomass Cook stove Technologies and Kitchen Characteristics on Indoor Air Quality and Human Exposure in Rural Settings of India." *Environmental International*, 123, pp. 240-255, December 2018.

### Mechanical Engineering

- Avulapati, Madan Mohan**, T.N.C. Anand, and R.V. Ravikrishna. "Atomization Patterns Produced by Viscous, like-on Impinging Liquid Jets." *Journal of Flow Visualization and Image Processing*, Vol 25 (2), pp. 65-76, August 2018.
- Panda, Debashis, **E. Anil Kumar**, and Sanjay K. Singh. "A Comparative Study of CO<sub>2</sub> Capture by Amine Grafted Vs Amine Impregnated Zeolite 4A." *Materials Science and Engineering*, Vol 377, pp. 012148, September 2018.
- Singh, Vinod Kumar, **E. Anil Kumar**, and Bidyut Baran Saha. "Adsorption Isotherms, Kinetics and Thermodynamic Simulation of CO<sub>2</sub>-CSAC Pair for Cooling Application." *Energy*, Vol 160, pp. 1158-1173, October 2018.
- Avulapati, Madan Mohan**, Thanos Megaritis, Jun Xia, and Lionel Ganippa. "Experimental Understanding on the Dynamics of Micro-explosion and Puffing in Ternary Emulsion Droplets." *Fuel*, Vol 239, pp. 1284-1292, December 2018.

### Physics

- Collings, E.\*, **R. S. Manna\***, A. A. Tsirlin\*, M. Bykov, E. Bykova, M. Hanfland, P. Gegenwart, S. Van Smaalen, L. Dubrovinsky, and N. Dubrovinskaia, "Pressure Dependence of Spin Canting in Ammonium Metal Formate Antiferromagnets." *Phys. Chem. Chem. Phys.*, vol 20, pp. 24465, August 2018 (\*corresponding author).
- Yoo, K., **B. Koteswararao**, J. Kang, A. Shahee, W. Nam, F. F. Balakirev, V. S. Zapf, N. Harrison, A. Guda, N. Ter-Oganessian, and K. H. Kim. "Magnetic Field-Induced Ferroelectricity in  $S = 1/2$

Kagome Staircase Compound PbCu<sub>3</sub>TeO<sub>7</sub>." *npj Quantum Materials*, vol. 3, pp. 45, September 2018.

- Ovsyannikov, S. V. M., Bykov, E. Bykova, K. Glazyrin, **R. S. Manna**, A. A. Tsirlin, V. Cerantola, I. Kuppenko, A. V. Kurnosov, I. Kantor, A. S. Pakhomova, I. Chuvashova, A. Chumakov, R. Rueffer, C. McCammon, and L. S. Dubrovinsky. "Anomalous Charge Ordering in Pressure-tuned Iron Oxide." *Nature Communications*, vol. 9, pp. 4142, October 2018.

### Humanities and Social Sciences

- Raghuramaraju, A.** "Bending Delueze and Guattari for India: Re-Examining the Relation between Art and Politics in Europe and India." *Sophia*, Vol. 57, No. 3, pp. 475-487, September 2018.
- Dwivedi, P. S.**, and **Vamshi Vemireddy**. "From Folios to Film: Understanding the Nuances of Transcreation of *Mṛcchakaṭika* as *Utsav*." *International Journal of Translation*, Vol. 30, No. 2, pp. 97-112, December 2018.

## Conference

### Civil Engineering

- B. Radhika**. "Reliability Estimation Using Conditional Gaussian Sub-Structuring." 13<sup>th</sup> *International Conference on Computational Structures Technology (CST)*, Barcelona, Spain, September 4-6, 2018.
- S. Kumar, V. Venudharan, **K. P. Biligiri**, and J. B. Sousa. "Performance Characterization of Reacted and Activated Rubber Modified Gap Graded Asphalt Mixtures", *Rubberized Asphalt-Asphalt Rubber 2018 Conference*, Kruger Park, South Africa, September 25-28, 2018.
- V. Venudharan, **K. P. Biligiri**, A. Kumar, U. Mukherjee, and R. Chattaraj. "Field Investigations on Asphalt-Rubber Gap-Graded (AR-Gap) Pavements Placed on Highways in India", *Rubberized Asphalt-Asphalt Rubber 2018 Conference*, Kruger Park, South Africa, September 25-28, 2018.
- H. N. Vinay, F. Silva, J. B. Sousa, G. B. Way, and **K. P. Biligiri**. "Assessment of Threshold Film Thickness Using Surface Area for RAR Modified Asphalt Mixtures", *Rubberized Asphalt-Asphalt Rubber 2018 Conference*, Kruger Park, South Africa, September 25-28, 2018.
- Avishreshth, S. J. Gaddam, **P. V. Sampath**, and **K. P. Biligiri**. "An Innovative Approach to Estimate Infiltration Rate of Pervious Concrete Pavements." *International Road Federation Global R2T Expo & Conference*, Las Vegas, USA, November 7-9, 2018.
- H. N. Vinay, V. Venudharan, G. Saha, **K. P. Biligiri**, and K. E. Kaloush. "Mechanistic Performance Prediction of Flexible Pavements at Varying Vehicular Speeds: An Approach to Address Frequency Singularity", *International Road Federation Global R2T Expo & Conference*, Las Vegas, USA, November 7-9, 2018.
- D. Ghosh, Rahul, **A. Ganguli**, and A. Mukherjee. "Ultrasonic Imaging as a Diagnostic Tool for Detection of Rebar Corrosion." *Asia Pacific Workshop on Structural Health Monitoring*, Hong Kong, November 12-15, 2018.

- Kishore C. Kumar, V. G. Ram, and **Satyanarayana N. Kalidindi**. "A Review of Studies on Environmental Performance Analysis of Construction and Demolition Waste Management using Life Cycle Assessment." *8<sup>th</sup> International Conference on Sustainable Waste Management*, ANU, Guntur, A. P. November 22-24, 2018.
- D. Ghosh, S. Beniwal, **A. Ganguli**, A. Mukherjee, and S. Bishnoi. "Cross-correlation based Imaging of Defects in Plate using Ultrasonic Lamb Waves." *NDE 2018 Conference & Exhibition of the Indian Society for NDT (ISNT)*, Navi Mumbai, India, December 19-21, 2018.
- K Narender, and **B Radhika**. "Extreme Value Analysis Based Estimation of Multi-Variate Demand Curves." *Structural Engineering Convention (SEC) 2018*, 19-21 December 2018 Jadhavpur University, Kolkata.
- **R. M. Oinam**, P. C. A. Kumar, and D. R. Sahoo. "Effectiveness of Steel Fiber in External Beam Column Joints under Cyclic Loading." *16<sup>th</sup> Symposium on Earthquake Engineering (16SEE)*, Roorkee, December 20-22, 2018.
- L. Rout, M. R. Priya, M Deepak, and **RKSS Gorthi**. "Learning Rotation Adaptive Correlation Filters in Robust Visual Tracking." in proceedings, *14<sup>th</sup> Asian Conference on Computer Vision (ACCV) 2018*, Perth, Australia, December 2-5, 2018.
- Anupama Thomas, R. Sheeba, and **RKSS Gorthi**. "Variable Patch Dictionaries for efficient Compressed Sensing based MRI Reconstruction." *11<sup>th</sup> Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP'18)*, IIIT Hyderabad, India, December 18-22, 2018.
- G.E. Spoorthi, **S. Gorthi**, and **RKSS Gorthi**. "A Deep Learning-based Model for Phase Unwrapping," *11<sup>th</sup> Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP'18)*, IIIT Hyderabad, India, December 18-22, 2018.
- K. Naveen, M. Murali, and **RKSS Gorthi**. "Tracking by Detection and Detection for Tracking of RBCs and SPRAM Cells in IFC." *11<sup>th</sup> Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP'18)*, MedImg Workshop, IIIT Hyderabad, India, December 18-22, 2018.

## Computer Science & Engineering

- Ravi Sharma, and **Venkataramana Badarla**. "Geometrical Optimization of a Novel Beacon Placement Strategy for 3D Indoor Localization", *IEEE ANTS workshop on Green ICT for Next Generation Wireless Networks*, Indore, December 16-19, 2018.

## Electrical Engineering

- L. Rout, M Deepak, and **RKSS Gorthi**. "Visual Object Challenge Results 2018", In Proceedings: Computer Vision – European Conference on Computer Vision (ECCV) 2018, *Visual Object Tracking Workshops*, Munich, Germany, September 8-14, 2018.
- L. Rout, M Deepak, and **RKSS Gorthi**. "WAEF: Weighted Aggregation with Enhancement Filter for Visual Object Tracking.", in proceedings, "*Computer Vision –European Conference on Computer Vision (ECCV), Visual object Tracking Workshop*, Munich, Germany, September 08-14, 2018.
- M. R. Priya, M Deepak, and **RKSS Gorthi**. "Visual Object Challenge Results 2018." in proceedings, "*Computer Vision –European Conference on Computer Vision (ECCV), Visual object Tracking Workshop*, Munich, Germany, September 8-14, 2018.
- N. George, **P. Vooka**, and S. Gopalakrishna. "An Efficient Digitizer for Calibration of Instrument Transformers." *2018 IEEE 9<sup>th</sup> International Workshop on Applied Measurements for Power Systems (AMPS)*, Bologna, September 26-28, 2018.
- A. Arvanitaki, N. Pappas, **P. Mohapatra**, and N. Carlsson. "Delay Performance of a Two-User Broadcast Channel with Security Constraints." *Global Information Infrastructure and Networking Symposium (GIIS)*, Greece, October 23-25, 2018.
- A. Sinha, **P. Mohapatra**, J. Lee, and T. Q. S. Quek. "On the Secrecy Capacity of 2-user Gaussian Interference Channel with Independent Secret Keys." in *Proc. IEEE ISITA*, Singapore, October 28-31, 2018.
- **K. P. Naveen**. "Coexistence of LTE-Unlicensed and WiFi with Optimal Channel Aggregation." in *NETGCOOP 18 (International Conference on Network Games, Control and Optimization)*, New York, US, November 14-16, 2018.

- Priya M Raju, M Deepak, and **RKSS Gorthi**. "Bag of Visual Words based Correlation Filter Tracker (BoVW-CFT)." *11<sup>th</sup> Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP'18)*, IIIT Hyderabad, India, December 18-22, 2018.
- V. Swetha, M. Deepak, and **RKSS Gorthi**. "Scale and Rotation Corrected CNNs (SRC-CNNs) for Scale and Rotation Invariant Character Recognition." *11<sup>th</sup> Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP'18)*, IIIT Hyderabad, India, December 18-22, 2018.

## Physics

- R. Srivastava, S.S. Baghel, S. Gupta, and **R. K. Gangwar**. "Collisional Radiative Model for Neon Plasma with Relativistic Electron Impact Fine Structure Excitation Cross Section." *33<sup>rd</sup> National Symposium on Plasma Science & Technology (PLASMA 2018)*, University of Delhi, December 3-7, 2018.

## Mathematics

- **Srijanani Anurag Prasad**. "Multiresolution analysis based on Coalescence Hidden-variable Fractal Interpolation Functions." *Fractal Geometry and Stochastic 6*, Bad Herranalb, Germany, October 1-5, 2018.
- **V. Raghavendra**. "On Elliptic Equations: A few Comments." National Workshop on *Mathematics and its Application*, S.V. University, Tirupati, November 8-10, 2018.
- **V. Raghavendra**. "Few Remarks on Linear Elliptic Equations." National Conference on *Recent Trends in Mathematics and its Applications (NCRTMA2018)*, Gitam School of Technology, Gitam, Bengaluru, December 21-22, 2018.

## Humanities and Social Sciences

- **A. Raghuramaraju**. "Excavating the foundations of Inequality." International Workshop on *Egalitarianism, Hierarchy and Global Intellectual Labour beyond the West*, jointly organized by National Institute of Advanced Studies, Bengaluru and University of Bergen, Norway, in collaboration with European Research Council, at NIAS, Bengaluru, September 17-20, 2018.

- **Bharath Kumar.** "Notes on Popularizing Philosophy." *Philosophy Teachers Meet*, University of Delhi, Delhi, October 13-14, 2018.
- **Bharath Kumar.** "Between Impure Bodies and Pure Concepts." *Women, Gender, and Patriarchy: Exploring the Margins*, University of Delhi, Delhi, October 15-17, 2018.
- **P. S. Dwivedi.** "Were Śūdraka's Days More Progressive than ours? Towards a Dialectical Study of *Gender Biases in Mṛcchakāṭikā* and *Utsav*." ICPR sponsored National Seminar on *Women, Gender and Patriarchy: Exploring the Margins*, University of Delhi, New Delhi, October 15-17, 2018.
- **C.S. Bahinipati.** "Do Existing Transformative and Curative Options Effectively Reduce non-Economic Loss and Damages in Western India?" 4<sup>th</sup> International Research Symposium of Rajarata University of Sri Lanka - *Investing in Biodiversity and Ecosystem Services (ISIBES)*, October 17-18, 2018.
- **C.S. Bahinipati.** "Smart Cities, Access to Safe Drinking Water and SDGs: Where Indian Cities are?", International Conference on the *Challenges of Governance in Mega Cities*, Institute for Social and Economic Change, Bengaluru, October 25-26, 2018.
- **Bharath Kumar.** "Reconstructing the Contemporary: Some Reflections." *Revitalization of Indian Philosophy: Decolonizing Indian Mind*, Cochin, November 9-10, 2018.
- **C.S. Bahinipati.** "Smart Cities, Access to Safe Drinking Water and SDGs: Evidence from Indian Cities." International Conference on Water Security and Climate Change, Nairobi, Kenya, 3-5 December, 2018.
- **P. S. Dwivedi.** "Sītā– A Sylvan Deity: Towards an Eco-Theological Appraisal of Rāmāyaṇa and Uttarrāmācarita." International Conference on *Women, Ecology and Cultural Cognizance: A Boulevard of Sustainable Amiability*, Amrita Vishwa Vidyapeetha, Amritapuri, Kerala, December 15-17, 2018.
- **A. Raghuramaraju.** "Temporal Imbalance in Debates in modern Indian Philosophy." in a Panel Discussion, International Conference on *New Frontiers in Sanskrit and Indic Knowledge*, at Chinmaya University, Cochin, December 17-19, 2018.
- **P. S. Dwivedi.** "Vedas, and Bharṭṛhari: Towards Disinterring the Development of Modern Linguistics." International Conference on *New Frontiers in Sanskrit and Indic Knowledge – 2018*, Chimaya Vishwavidyapeeth, Ernakulam, Kerala, December 17-19, 2018.

## Awards and Achievements

- **Professor Kamatam Krishnaiah** was awarded the "Eminent Engineer's Award—2018" on the occasion of the 158<sup>th</sup> Birth Anniversary of Bharat Ratna Sir Mokshagundam Visvesvaraya, and 51<sup>st</sup> Engineers Day on September 15, 2018 by the Institution of Engineers (India), Tirupati Chapter.
- **Mr. Kishore C Kumar**, MS Scholar, Civil Engineering, received the Icon SWM-Excellence Paper Award 2018, for the paper "A review of studies on environmental performance analysis of construction and demolition waste management using life cycle assessment" presented at the 8<sup>th</sup> International Conference on Sustainable Waste Management held at Acharya Nagarjuna University, Guntur, AP, India.

## Events & Activities

### Academic Orientation Programme

The Institute conducted its 4<sup>th</sup> Orientation Programme on August 8, 2018 to induct the 2018-2022 batch of B. Tech students. The students and their parents were briefed about the academic programme and the facilities available at IIT Tirupati. It was followed by an interactive session for the parents with the Director and Deans of the Institute.

### 72<sup>nd</sup> Independence Day Celebrations on the Permanent Campus

The first celebration on the permanent campus of IIT Tirupati was the 72<sup>nd</sup> Independence Day. The celebrations commenced with unfurling of the national flag by the Director Prof. K. N. Satyanarayana followed by the national anthem. The Director addressed the gathering of the faculty, staff and students. Students organised many cultural events, and competitions on the theme of national unity in the Indoor stadium of the Institute.

### SPICMACAY

The second performance of SPICMACAY Heritage club to promote the Indian classical music among the youth was organised on November 13, 2018. Sri Sikkil Gurucharan gave a Carnatic Vocal Lecture Demonstration accompanied by Sri V Sanjeev on Violin and Sri Akshay Ananthapadmanabhan on Mridangam.



## Shri N. Amaranatha Reddy, Hon'ble Minister for Industries and Food Processing visited IIT Tirupati

Food & Agricultural Technology has been identified as one of the thrust areas for research and development by the Institute. To discuss with the Director and the faculty members on how IIT



Tirupati can contribute to the state initiatives in Food Processing and Agriculture, Shri N. Amaranatha Reddy, Hon'ble Minister for Industries and Food Processing, Govt. of Andhra Pradesh along with Mr. Y. S. Prasad, CEO, A. P. Food Processing Society and Mr. Preetham Reddy, Industries Special Representative, visited the Institute on October 8, 2018.

## Visit to Food Processing Units by Faculty Members

To develop an understanding of the challenges faced by the food processing industries, a team of faculty members with research interests in food and agriculture led by the Director, Prof K. N. Satyanarayana and Mr. N.L.B Pantulu, Senior

Consultant with the AP Food Processing Society, visited Jain Food systems and Food and Inns processing plants located near Chittoor on November 3, 2018.



## IIT Tirupati Secured 8<sup>th</sup> Position in the 7<sup>th</sup> Inter-IIT Tech Meet- 2018

IIT TIRUPATI secured 8<sup>th</sup> position in Overall General Championship in the 7<sup>th</sup> Inter IIT Tech Meet 2018 surpassing all the second and third generation IITs. A contingent of 28 students from IIT Tirupati participated in this Inter IIT Tech Meet that was held at IIT Bombay from 18<sup>th</sup> to 20<sup>th</sup> December 2018. IIT Tirupati claimed two gold medals and one bronze medal. In PlutoX Hackathon, only IIT Tirupati got the gold medal.

## IIT Tirupati Student Team Wins a fully Paid Trip to ESIGELEC, France

A team of students comprising second year students V. Dheeraj, Surya Ganesh Vadhri, KHDS Uday Krishna, AVSK Chaitanya won the competition "Make Your Robotik" in October 2018 conducted by a France based institute named ESIGELEC, and Manipal Institute of Technology. The team stood first surpassing 51 teams from across the country, and won a fully paid trip to ESIGELEC in France.

## 7K FUN RUN

Teachers, students and staff of IIT Tirupati went for a 7K FUN RUN on August 12, 2018 at the site of the permanent campus. This run, in true sense, was a fun for all the members of IIT Tirupati family. This run was actually organised to familiarise the newly inducted students of the Institute with the permanent campus site.



## 25<sup>th</sup> Inter-IIT Staff Sports Meet

Faculty and Staff members from IIT Tirupati participated in various sports events of the 25<sup>th</sup> Inter-IIT Staff Sports Meet at IIT Guwahati from December 24 to 28, 2018.

## 53<sup>rd</sup> Inter-IIT Sports Meet

A contingent of students from IIT Tirupati participated in the 53<sup>rd</sup> Inter-IIT Sports Meet at IIT Guwahati from December 14 – 21, 2018. The proportion of girl participants from the Institute was more than any other IIT (9 out of 41 participants). Apart from athletics, IITT students participated in cricket, badminton and basketball (men and women). Notable among them was Sanugula Spandana (2<sup>nd</sup> Civil Engineering), who finished fourth in the women's high jump event with a jump of 1.20 m.



Editor

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