

## VISION

To produce technically competent engineers having innovative skills, positive attitude, leadership and professional ethics, with a focus on developing sustainable and new technology.

## MISSION

- Create a conducive environment for teaching, learning and innovation by providing the state-of-the-art infrastructure.
- Learn sustainable and new technologies through industry institute collaborations.
- Produce technically competent engineers with ethics, discipline and social consciousness through holistic education.

# NEWSLETTER

# Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

JAN - DEC 2020 | ISSUE - 16



Student visiting Solar Power Plant during the Induction Program Phase - 2



Dr. Syed Ariff Principal Addressing the gathering on International Women's day



Industry and Academic members AAC of Dr.TTIT



Golden Valley Educational Trust

## Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

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# A LEADING LIGHT

## THE FOUNDER



**Late Dr. T. THIMMAIAH, IAS (Retd.)**  
President Emeritus, GVET  
(1927-2014)

Dr. T. Thimmaiah Institute of Technology (Formerly Golden Valley Institute of Technology) was instituted in the year 1986 at Kolar Gold Fields by Dr. T. Thimmaiah, Ph.D (London) IAS (Retd.), as the founder President under the aegis of Golden Valley Educational Trust, with the sole purpose of imparting quality technical education to reach all people, especially the downtrodden. The other institutions under this Trust are KGF First Grade College, KGF PU College and Sri. Kengal Hanumanthaiya Law College.

Dr. T. Thimmaiah was the chairman of the Southern Regional Council for Technical Education for six years and was instrumental in granting permission to start new Polytechnics and Engineering colleges in the Southern States of India. He was the Vice- President of ISTE for two terms and was the Director, School of Mines, Kolar Gold Fields. He had been the Director of Board of Governors, Regional Engineering College Warangal, Andhra Pradesh. He served as a member of the Advisory Committee of Regional Engineering College, Calicut, Kerala and was a member of the Joint Board of Mining Education, New Delhi. Dr. T. Thimmaiah was also a Member, Board of Management of BGML at K.G.F and was responsible for the development of in-house expertise in mine management.

He has served as the Deputy Commissioner, Shimoga District and Additional Secretary in the Department of Agriculture and Horticulture, Government of Karnataka. He was awarded "Priyadarshini Indira Gandhi achievement Award 2011" for the year 2010 for his outstanding contribution in field of education by International Peace and Integrity Society. He had a dream and vision of getting the Deemed University status for the institutions under GVET at Kolar Gold Fields.

## ABOUT OUR PRESIDENT



**Dr. T. VENKAT VARDHAN**

Dr.T. Venkat Vardhan started his career in the late 1980's with a pioneering vision to conduct large scale live events akin to those in overseas markets. This gradually paved way for all that the company he founded, DNA Entertainment Networks Pvt. Ltd., stands for today, Enterprise, Excellence and Innovation.

Dr. Venkat Vardhan's grandfather Late Shri. Kengal Hanumanthaiya, was a former National Leader and Chief Minister of Karnataka. He was well known for his vision and the pivotal role he played for unification of the New Karnataka State. His legacy is cherished by the monumental edifice he built, the Vidhana Soudha in Bangalore, the historical landmark. He is the son of Late. Dr. T. Thimmaiah, a legend in the field of education, a former I.A.S officer who dedicated over five decades of his life in establishing various Educational Institutions in Kolar Gold Fields, to impart quality education in the rural areas. Following his footsteps, Dr.T. Venkat Vardhan the President of the Golden Valley Educational Trust, continues to help the colleges under the trust in K.G.F to grow along with their Principals, Teachers and most importantly, the students of GVET Institutions. He has played a pivotal role at the national level by integrating Live Entertainment and Sports through media, TV and PR to make it one of the most inspirational and effective marketing tools in India. Today his company DNA Networks is responsible for over 90 percent of all large live format events that take place in India in Music and Sports.

His work and contribution to the Event Management Industry saw him being elevated as the President of the Event Management Association of India under the aegis of Federation of Indian Chambers of Commerce and Industry (FICCI). He also serves on various National Entertainment Committees representing the live music industry. His company's efficiency has been commended by the likes of White House Communication Agency, USA, the Government of Karnataka, the Government of India, Artist Managements and Sport Leagues in India and Overseas. In recognition of his work in event management, rural education and business, the University of Jerusalem Conferred him with a degree of "Doctor of Philosophy". He was honored "Rotary Vocational Excellence" award for 2015, for his contribution towards entertainment world and education to the society. He was being honored for his contribution in Sports and Hockey at Hockey India Second Annual Award on 26th March 2016. WOW Awards Asia honored him with a Lifetime Achievement Award for his three-decade long contribution in event management in June 2019. He has helped the needy during the COVID - 19 pandemic.



## PRESIDENT'S MESSAGE

Dr.T. Thimmaiah Institute of Technology has been serving many young engineering aspirants for more than three decades. The evolution of the institution for the past three decades has witnessed strong blend of state-of-the-art infrastructure and human resources committed to provide professional education with thrust on creativity and innovation. Special emphasis is given to outcome-based education. Our institution provides ample opportunities for the students to acquire both technical and life coping skills which would enable them to empower themselves as useful citizens.

We encourage our faculty members to take up research activities, to acquire knowledge, innovation and newer insights that makes teaching more vibrant and scientific.

I congratulate all the students who have been placed in various companies through our Placement and training cell. My appreciation to all the staff for their team work in getting good results and adapting themselves to the digital platform.

I am extremely happy to release the 16th issue of newsletter from January to December 2020. I am confident that the editorial team has covered all the recent happenings in the campus and activities during the pandemic.

I appeal to all the students to take care of their health and be safe during this COVID -19 pandemic.

I wish all the students to excel in all fields and make their parents, institution and our Nation proud.

Dr. T. Venkat Vardhan  
President, GVET

## FROM THE EDITOR'S DESK



With great pride, we place before you the 16th edition of newsletter of Dr. TTIT from January to December 2020. This newsletter highlights the recent events held in our campus for the past one year, which includes significant achievements of the faculty members and the students of Dr. T. Thimmaiah Institute of Technology including those during COVID -19 pandemic.

On behalf of the editorial committee, we submit our heartfelt thanks to our beloved President and Management of GVET for their constant encouragement and support to make this newsletter a better one.

Dr. Syed Ariff  
Principal  
Chief Editor

## LIST OF TRUSTEES

<b>Dr. T. Venkat Vardhan</b>	President, GVET
<b>Sri. Raoul Kengal Vardhan</b>	Vice-President, GVET
<b>Dr. C. Krishna Kumar</b>	Secretary, GVET
<b>Sri. S. Harisha Prabhu</b>	Treasurer, GVET
<b>Sri. K.V. Venkata Krishna Reddy</b>	Trustee, GVET
<b>Sri. K.G. Nanjappa</b>	Trustee, GVET
<b>Sri. M. Narayana Reddy</b>	Trustee, GVET
<b>Sri. B. Manivannan</b>	Trustee, GVET
<b>The Principal, KGF FGC</b>	Trustee, GVET



## EDITORIAL COMMITTEE

### CHIEF EDITOR

**Dr. Syed Ariff**  
Principal

### EDITOR

**Prof. Ruckmani Divakaran**  
Dean (Academics)

### MEMBERS

**Dr H.G. Shenoy**, Vice Principal and HOD, Mech  
**Dr. P.D. Sudersanan**, Head of Accreditation and Ranking  
**Dr Manas Mukhopadhyay**, HOD, Mining  
**Dr Lakshmipathy N.**, HOD, EEE  
**Dr S. Sridhar Kumar**, HOD, CSE  
**Prof. Vijaya Bharathi M.**, HOD, ECE  
**Dr K.Ramesh HOD**, Civil  
**Dr Kalyana Kumar S.** HOD, Maths  
**Prof. Sarala Shanthi J.** HOD, Physics  
**Prof. Mohana K.R.**, HOD, Chemistry  
**Prof. Veena B.**, HOD, Science  
**Prof. Ronald Lawrence**, Asst. Prof. EEE  
**Mrs. Preethi S.**, Technical Trainer

## Toppers of 2016-2020 Batch



**SHAKTHI AMARTHA**  
1GV16CS064  
CGPA:9.16



**PRIYA D**  
1GV16EC037  
CGPA: 8.92



**SANGEETHA R**  
1GV16EE013  
CGPA: 8.96



**MASTHANVALI M R**  
1GV16CV012  
CGPA: 8.11



**SWETHA P**  
1GV16ME043  
CGPA: 7.96



**SUJITH.S**  
1GV16MI028  
CGPA: 8.92

## COLLEGE ACTIVITIES

## Induction Programme Phase -II



Experts addressing during the Induction Program Phase – 2

The students Induction Programme Phase-2 was conducted from 06-02-2020 to 15-02-2020 for the students of first year BE 2019-2020 batch. The program was started with rules and regulations of the university (VTU) followed by the examination process, awareness about the scoring (CGPA, SGPA) awareness about AICTE, NBA and Vision-Mission of the Institution. The program included Yoga and Aerobics by an expert Sri. Srinivasramraj from Bangalore. The students were taken for a Field Work and visited the Golden Valley Natural farm in Bethamangala.

In the campus Indoor and Outdoor games were conducted. Activity-based Learning was conducted by a



Magic Solution and Services. The creative arts like Painting and Sculpturing were conducted by the faculty members of Dr.TTIT. The Literary Activity like Oral and Written Communication skills in English was also conducted by Dr. TTIT Faculty members. The Environment Awareness Programme was conducted by Sri Ramesh, District Environmental Officer, Kolar. The students were taken for a local trip to Solar Power Plant near Avani and Water Purification Plant in Bethamangala. Conducted competitions for various activities and the winners and participants were rewarded with Certificates.



Student visiting Solar Power Plant during the Induction Program Phase – 2



The official explaining about Solar Power Plant during the visit as a part of Induction Program Phase – 2



## COLLEGE ACTIVITIES



Certificates issued for the best performance during the Induction Program Phase -2



Organizers and Participants of the Induction Program Phase – 2

## AAC (Academic Advisory Committee) Meeting

Academic Advisory Committee of Dr.TTIT held on Sunday 19th January 2020 at 12:30PM in Dr.TVV Smart Seminar Hall. 28 members of various colleges and companies were part of the event. The review of the previous meeting AAC was submitted by the Principal, Dr. Syed Ariff. The members of AAC were informed about the current Teaching Learning process and practices adopted in the institution. Suggestions were given by the members to improve the Teaching Learning Process,

The committee also discussed about the R&D activities, Industry-Institution interactions and Training and Placement.Principal informed about various MOU's signed by our Institution.He also informed that the incentives were awarded for the faculty members and students for their research work.



Discussion on Quality Education Teaching Learning Process by AAC members



## Entrepreneurship Development Program

The Entrepreneurship Development Program was conducted on 13.03.2020 by Mr. B. G. Ramakrishnappa Managing Director of Deccan Hydraulic Pvt. Ltd, Bangarpet.



Resourceperson Mr. Ramakrishnappa, owner of Deccan Hydraulic Pvt Ltd



The objective of this entrepreneurship program was to discuss about "How to Develop a Business Proposal and to Create Employment in rural and urban areas" which is a part of AICTE activity earning points and is compulsory for all the students of AICTE affiliated colleges. The students are exposed to different aspects of entrepreneurship, including various opportunities in business.

## Women's Day Program

International Women's Day was celebrated on 6th March 2020, by the CICC at Dr. TTIT Students Centre on the theme "I am Generation Equality Realizing Women's Right". Program started with National Anthem followed by invocation song by Mrs. Manjushree K. C. Asst. Prof. Department of ECE. A report on women's day was presented by Mrs. Vijaya Bharathi M.HOD of ECE and the convener of CICC. Prof. Ruckmani Divakaran Dean



Dr. Syed Ariff Principal Addressing the gathering on International Women's day

Administration was felicitated for her services rendered at DR. TTIT by Dr. Syed Ariff Principal, Dr. H. G. Shenoy, Vice Principal and Mrs. Vijaya Bharathi M. HOD of ECE. Presidential Address was delivered by Dr. Syed Ariff Principal, vote of thanks was proposed by Mrs. Archana K. Asst. Prof. Department of Chemistry. All women faculty members participated and planted saplings in the campus



Planting of Saplings on Women's Day

## Webinar on Universal Human Values

A Webinar on Universal Human Values was organized on 12th August 2020. It was presented by Dr. Syed Ariff, Principal. The online event that was conducted during lockdown time was focused on developing real understanding on how-to live-in harmony with Human Beings, family, society and Nature. The session aimed at bringing self-exploration, self-reflection, develop the

courage to act and provide value guided skill education. In the introspective talk, reflections on various topics such as happiness, prosperity, understanding self-trust, relationships, care, reverence, gratitude and love were covered. Dr. K. M Palaniswamy Professor Department of ECE coordinated the program

## International Conference

All the Faculty members participated in International Conference (Virtual) ICRTTEAS 2020 organized by Dr T Thimmaiah Institute of Technology. 750 members

participated from 28 colleges in which 61 papers were presented by the students and faculty members and the papers were submitted for publishing in Scopus Indexed Journals



## DEPARTMENT OF MECHANICAL ENGINEERING

Technical talk was conducted on "Emerging Opportunities in the Mechanical Engineering Industry" by Phaniraj Bhatt, Director of Seven Seers consulting Bangalore on 04.03.2020



Mr. Phaniraj Bhatt (Resource person) and HOD addressing the gathering

## Memorandum of Understanding

An MoU was signed with Aqmenz Automation Pvt Ltd Bangalore and Dept of Mechanical Engineering Dr. TTIT on 23.10.2020

## Paper Presented, Published and Online Courses Completed by the Faculty Members

- Dr. H. G. Shenoy, HOD published a paper on "Corrosion behavior of Al-Mg-Si alloy-based hybrid composite in different aging conditions", in International Journal of Recent Advances in Engineering and Technology, page 17-22, 2020
- Dr. H.G. Shenoy, HOD presented a paper on "Experimental Investigation of Aluminum 7075 alloy re in forced with alumina and e-glass" on National Conference on Emerging trends, simulation and manufacturing- key components making India initiative conducted by MSRIT Bangalore, 23th to 24th November 2020
- Dr. P.D Sudersanan Professor Head of Accreditation and Ranking, presented a paper on "Friction stir welding of dissimilar aluminum alloys and its characterization" on 26th and 27th June 2020 at ICFE-2020
- Mr. Mohan Kumar K. Associate Prof., Mr. Manjutha Babu N.S. Associate Prof and Vasanth Kumar, M. Tech student in Machine Design published a paper on "Optimized design and static analysis of robotic arm end effectors" in Journal of Seybold Report, Volume 15, Issue 9, September 2020
- Mr. Mohan Kumar K. Associate Prof. published a paper on "Wetting behavior of textured silicon surfaces - an experimental study", Materials Research Express, IOP Science, Issue 7, 054001, 2020.
- Mr. Mohan Kumar K. Associate Prof. published a paper on "Enhancement of mechanical and tribological properties of epoxy-based polymer with talc and PTFE as fillers", IJMPERD, Transtellar Publications, Volume 10, Issue 3, 137-146, 2020.
- Mr. Manjunatha Babu N.S. Associate Prof. published paper on "Predictive analysis of drilled hole geometrical parameters through artificial neural network" in journal of green engineering, volume 10 issues 10, 10099-10113, 2020
- Mr. Manjunatha Babu N.S. Associate Prof. published a paper on "Drillhole surface characterization of hybrid FRP laminates through statistical analysis", Australian journal of mechanical engineering, December 2020
- Mr. Pruthvi H. M. Asst. Prof, completed 12-week NPTEL online course on "Data analytics with Python" from January to April 2020 conducted by Indian Institute of Technology
- Mr. Thontharaj Urs T. S, Asst. Prof Completed a course on "Google Analytics for Beginners" Conducted by Google analytics academy, "SAP EDI Training" on 9th January 2020 Conducted by Udemy and "Legacy System Migration Workbench" on 10th January 2020 Conducted by Udemy.



## DEPARTMENT ACTIVITIES

### Webinar and E-Quiz Conducted

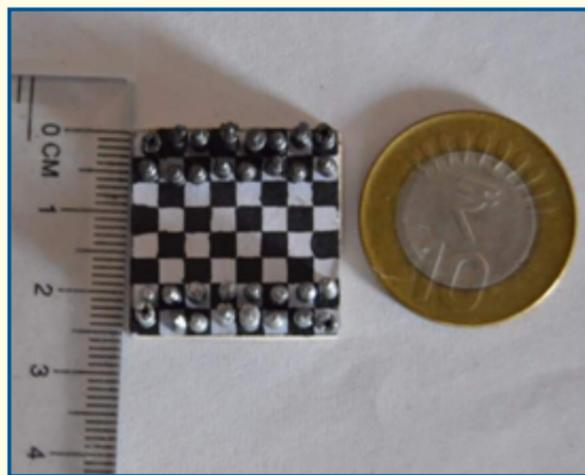
- E-Quiz on “Engineering Graphics” by Dr. P. D Sudersanan Professor Head of Accreditation and Ranking on 02.07.2020
- E-Quiz on “Finite Element Analysis” by Dr. P. D Sudersanan Professor Head of Accreditation and Ranking and Mr. Sagar S Asst. Prof. on 12.07.2020
- E-Quiz on “Elements of Mechanical Engineering” by Dr. P. D Sudersanan Professor Head of Accreditation and Ranking, Mr. Srinivas A. Asst. Prof., Mr. Anand G Asst. Prof., Mr. Sagar S Asst. Prof. on 29.07.2020
- E-Quiz on “Material Science” by Prof Pruthvi H. M, Asst. Prof. on 03.08.2020
- E-Quiz on “Fluid Mechanics” by Dr. P. D Sudersanan Professor Head of Accreditation and Ranking, Mr. Balasubramanian N. S Asst. Prof., Mr. Dileep R Asst. Prof., on 18.08.2020
- A webinar on “The Futures of Engineers” by Anil Kumar GS General Manager, Prestige TTK Pvt Ltd on 07.11.2020
- A webinar on “The Top 10 Jobs Skills of Tomorrow” by Mohan Shamanna Chief Executive Officer Aqmenz Automation Pvt Ltd on 07.12.2020

### Webinars, FDP, Quiz and NTPEL Courses Completed by the Faculty Members

- Dr. P.D. Sudersanan HOD, attended seven FDP
- Dr. Narasimha C. Associate Prof. attended sixteen FDP
- Mr. Mohan Kumar K. Associate Prof. attended one webinar, eleven FDPs
- Mr. Manjunath B.N. Associate Prof. attended three webinars
- Mr. Manjunatha Babu N.S. Associate Prof. attended twenty-five FDP
- Mrs. Anitha Devi S. H. Asst. Prof. attended five FDP
- Prof. Srinivas A. Asst. Prof. attended six FDP
- Prof. Pruthvi H. M. Asst. Prof. attended nine FDP
- Prof. Dileep R. Asst. Prof. attended three webinars and two FDP
- Prof. Anand Gadekar, Asst. Prof. attended four webinars and ten FDP
- Prof. Thontharaj Urs T. S, Asst. Prof. attended seven FDP and completed three NTPEL Courses.
- All the Faculty members participated in National Level E-Quiz Conducted by various Institutions.

### Student Achievements

Prashanth S. student of final year, a micro artist entered the India book of records by creating the smallest handcraft 2.5cm x 2.5cm chessboard with pieces of 0.5cm and biggest is 1cm.



Mr. Prashanth S The Micro Artist for Entering the “Indian Book of Records by Creating the smallest Chess Board Measuring 25MM X 25MM



## DEPARTMENT ACTIVITIES

### DEPARTMENT OF MINING ENGINEERING

#### Webinar and Quiz Conducted

- National Level Interactive Webinar on “Application of Mining Laws for Future Mining Engineers” by Mr. Suresh Kumar D. Director (Technical and Business Head) Delight Group of Companies, Uganda on 08.07.2020 to 10.07.2020 coordinated by Mr. Vijaya Raghavan Associate Prof.
- National Level Interactive Webinar on “Planning and Designing of Surface Mining” by Mr. Jaya Prahalad Ex Manager KIOCL India on 09.07.2020 to 11.07.2020 coordinated by Mr. Vijaya Raghavan Associate Prof.
- Technical E-Quiz on “Mining Technology” was conducted on 02.10.2020 by Mr. Raja S. Associate Prof.
- A webinar on “Mine Liasoning” was conducted on 03.10.2020 by Mr. Raja Associate Prof.

#### Webinars, Faculty Development Program, and Quiz Attended by Faculty Members

- Dr. Manas Mukhopadhyay HOD, attended two webinars, one STTP
- Mr. Subha Ranjan Paul, Associate Prof. attended three webinars
- Mr. Vijaya Raghavan P. Associate Prof. attended one webinar
- Mr. Paul Prasanna Kumar, Associate Prof. attended one webinar, one FD Program
- Mr. John Gladius J. Associate Prof. attended two webinars, two FDP

- Mr. Raja S. Associate Prof. attended one webinar, one FDP
- Mr. Vikram P. Asst. Prof. attended one webinar
- Mr. Mahendran J. Asst. Prof. attended six webinars, one FD Program
- Mr. Yuvakeswar Govind R. Asst. Prof. attended one webinar

#### Student’s Achievements

- Kuenga Choeden, Ranjith. L. N, Sanjay Kumar and Lalnunsiam Fanai of final year presented a paper titled “IoT Based Power Line Communication for Underground Coal Mine”, under the guidance of Mr. Paul Prasanna Kumar Asst. Prof. in ICRTTEAS 2020, Dr TTIT, K.G.F.
- Ajay Sahu and Dhruv Lodha, Jeffin Thomas published a paper on “Wireless Communication and Tracking System in underground Mines” under the guidance of Mr. Vijaya Raghavan P. Associate Prof. in IJRAET 2020
- Yash Kumar of 4th semester, won First prize in essay and debate competitions conducted by Mining Engineers Association of India on 01.11.2020
- Nishath Fatima of 6th semester, won First prize in quiz competition and second prize in debate competition conducted by Mining Engineers Association of India on 01.11.2020

#### Department Achievement

Received an approval for establishing a Research Centre for Mining Department

### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

#### Paper Published by Faculty Members

Dr Sreedhar Kumar HOD, has published a research paper on “A New Approach of Multilevel Unsupervised Clustering for Detecting Replication Level in Large Image Set”, Procedia Computer Science (Elsevier), vol. 171, April 2020, Indexed in Scopus, Impact Factor: 0.683.

Dr. S. Sreedhar Kumar HOD, has published a research paper on “Two Phase Cluster Validation Approach Towards Measuring Cluster Quality in Unstructured and Structured Numerical Datasets”, in the journal of Ambient Intelligence and Humanized Computing (Springer), Indexed in SCI, Impact Factor: 4.85, Q1 Journal, September 2020.

#### Patent Registered

Dr. S. Sreedhar Kumar HOD, has filed a research idea in patent with entitle “Breast Cancer Predication System and Method for Early Detection” in Indian Patent Advanced System, Intellectual Property India (IPI) on 6th June 2020. Patent Application Number: 202041021242

#### Webinars and Quiz Conducted

- 1ST National level E-Quiz contest on “Knowledge Discovery Quiz in computer Science Engineering” was conducted from 7th – 9th July 2020 by Mrs. Santosh Kumari K. Asst. Prof., Mrs. Sharmila Kumari N. Asst. Prof. and Mrs. Mercy Flora Asst. Prof.
- 2nd National Level E-Quiz contest on “Knowledge Discovery Quiz on Computer Programming Languages” was conducted from 26th – 28th July 2020 by Mrs. Revathi A Asst. Prof., Mrs. Sophia S. Asst. Prof. and Mrs. Apoorva D. Asst. Prof.,
- 1st National Level Webinar in association with OSE Labs Chennai and Red hat was organized on “Building career in Linux Administration” on 20.06.2020
- 2nd National Level webinar on “Opportunity knocks, but once” was conducted from 26th June 2020.
- 3rd National Level three days Interactive Webinar “Latest Trends in Data Science & Cyber Security” was conducted from 9th – 11th July 2020.
- 4th National Level four-day Webinar on: Emerging Trends in IT Industry “was conducted from 3rd – 6th August 2020.



## DEPARTMENT ACTIVITIES

### Webinars, Faculty Development Program and Quiz Attended by Faculty Members

- Mrs. Vinutha B.A. Asst. Prof. attended five FDP and four webinars
- Mrs. Punitha F. Asst. Prof. attended three FDP and three webinars
- Mrs. Premalatha Asst. Prof. attended two FDP and two webinars
- Mrs. Tharadevi Asst. Prof. attended three FDP and three webinars
- Mrs. Shalini G. Asst. Prof. attended three FDP and one webinar
- Mrs. Nishabai Asst. Prof. attended three FDP and one webinar
- Mrs. Santhosh Kumari Asst. Prof. attended three FDP and three webinars
- Mrs. Sudha V. Asst. Prof. attended three FDP and two webinars
- Mrs. Mercy Flora Prithiba A. Asst. Prof. three FDP and three webinars
- Mrs. Sophia Asst. Prof. three FDP and three webinars
- Mrs. Revathi S. Asst. Prof. three FDP and two webinars
- Mrs. Hamsalatha J. Asst. Prof. two FDP and one webinar

### Students Activities

- N. Zara Khan, Ayesha. M. Majreeha Sultanal. and Raina Fathima of final year under the guidance of Mrs. Sharmila Kumari N. Asst. Prof. published a paper on "The design of a trust worthy efficient and secure election ballot voting system" in IJRAET
- Abida Khanum, Archana K. P, Madhumitha R. and Narmada K. of final year under the guidance of Ms. Sudha V. Asst. Prof. published a paper on "Decision making model for adaptive crowd sourcing in medical data platforms by using unsupervised learning" in IJRAET
- Divya J, Harshitha N. A, Harshitha R. and Jyothsna of final year under the guidance of Mrs. Thara Devi M Asst. Prof. published a paper on "A systematic approach to enhance the performance for stock market prediction" in IJRAET.
- Anupriya S, Niroshini K, Nidhi Singh M. and Zakir Hussain of final year under the guidance of Mrs. Premalatha D. Asst. Prof. and Mrs. Hamsalatha J

Asst. Prof. published a paper on "Autonomous Camera based Eye Controlled Wheelchair system using Raspberry-Pi" in IJRAET

- Shreelakshmi J.R, Sharanya S, Sneha V. and Sushma Rani V. S. of final year under the guidance of Mrs. Sophia S. Asst. Prof. published a paper on "User verification for smartphone in non-intrusive manner using machine learning technique" in IJRAET
- Madhumitha G, Pavithra P. and Sathish Kumar M. under the guidance of Mrs. Punitha Asst. Prof. has published a paper on "An improvised version of color image classification using unsupervised clustering technique" in IJRAET
- K. U Monisha, Y. Nivedha, G. Indhuand N. Asma Farheen, under the guidance of Mrs. Vinutha B.A. Asst. Prof. published a paper on "An Improved Classification Method for Categorizing Larger Online Customer Review into Distinct Cluster for Deep Analysis" in IJRAET.
- S. Chitra, A. Daniya Kulsum, Deepa H. N, G. Mutturaj and Ramya Sri G. under the guidance of Mrs. Nisha Bai Asst. Prof., published a paper on "Polarity based sentimental analysis technique for online user movie review using supervised scheme in IJRAET.
- K. Prashanthi, Shakthi Amaritha A.R, Shylashree S. and Sowmya G. under the guidance of Dr. S. Sreedhar Kumar HOD and Mrs. Revathi S. Asst. Prof. published a paper on "A New Approach for Improving MRI Image Pixel Quality Using Unsupervised Concept" in IJRET.
- Chethan S. of 3rd Semester has participated in "Cyber Disease- Ethical Hacking workshop cum CTF Event conducted by i3 Indya Technologies in association with Aakar 20 IIT Bombay on 30th – 1st Oct at Amirtavishwa Vidyapeetham, Coimbatore.
- Saran Babu of 7th sem has completed course on "Front end Fundamentals" by passing exam conducted by Purple.com.
- Akhila P. of 7th Semester have completed NPTEL course.
- Sindhu Lakshmi of 5th Semester have completed NPTEL course.

### Department Achievement

Received an approval for establishing a Research Centre for Department of Computer Science Engineering



## DEPARTMENT ACTIVITIES

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### Papers Published

- Mrs. Jenitha A. Associate Prof. and Ms. Tamilvani R. Asst. Prof. Published a paper on the title "Design and Implementation of Low Power Digital Up Counter for digital Beamforming" IJRAET <https://doi.org/10.46564/ijraet.2020.v08i08.006>.
- Mrs. Vijaya Geetha R. Associate Prof. published a paper on the title "A Feature Based Change Detection Approach using multi-scale orientation for Multi-temporal SAR Images" in European Journal of Remote Sensing, Taylor & Francis, ISSN 2279-7254, 10.1080/22797254.

#### Patents Published

- Mrs. Jenitha A. Associate Prof. and Ms. Tamilvani R. Asst. Prof. published a patent on the title "A Novel Method Approach of Wireless Sensor Network and Delay-Tolerant Network Deployment" Application No: 202041009857, Published on 30.03.2020
- Mrs. Vijaya Geetha R. Associate Prof. published a patent on "IoT Based Advanced Traffic Management System Integrated with Image Processing Technique", Application number: 202041021242, Published on 20.05.2020

#### FDP, Webinar and Quiz Conducted

- Faculty Development Program on "Application of Sci Lab in DSP and Digital Communication"- conducted from 15th Jan to 17th Jan 2020 by Dr. R. Senthil Kumar Asst. Prof., ECE Department IRTT Erode
- Faculty Development Programme on. "Virtual Lab Development and its usage" conducted by Virtual Lab development Team, NITK, Surathkhal on 30/5/2020
- Five days FDP on "National Level Five Days Online Faculty / Student Development Programme on Recent Trends association with Institution's Innovation Council from 20th to 24th July 2020.
- National Level Five Days Online FDP/ STTP on 5G Protocol Stack Design and Implementation from 24th to 28th August 2020 association with iSignal Research Labs, Bangalore by Mr. Sreeram, founder 5G/6G research, iSignal research labs
- National level E-Quiz contest on "Computer Networks" was conducted from 27/06/2020 to 3/07/2020 by Mrs. Jenitha A. Associate Prof. Mr. Shashikiran S. Asst. Prof. and Ms. Devika S. Asst. Prof.
- National level E-Quiz contest on "ITC and Communication Systems" was conducted from 27/06/2020 to 3/07/2020 by Mrs. Jenitha A. Associate Prof. Mrs. Manjushree K Chavan Asst. Prof. and Ms. Tamil Vani R. Asst. Prof.

- National level E-Quiz contest on "Network Theory and Microwaves" was conducted from 29/06/2020 to 02/07/2020 by Prof. C. Rukmani Divakaran Dean Academics, Mrs. Vijaya Bharathi M. HOD and Ms. Mohana C Asst. Prof.
- National level E-Quiz contest on "Embedded Systems and Microcontroller" was conducted from 01/07/2020 to 04/07/2020 by Dr. K.M. Palaniswamy Professor., Mrs. Vijaya Geetha R. Associate Prof. and Mrs. Nandini GN Asst. Prof.
- National level E-Quiz contest on "DSD, HDL and VLSI" was conducted from 01/07/2020 to 07/07/2020 by Prof. Ruckmani Divakaran Dean Academics, Mr. Srinivas Babu N Asst. Prof. and Ms. Tamil Vani R. Asst. Prof.
- National level E-Quiz contest on "Electronic circuits and Power Electronics" was conducted from 03/07/2020 to 06/07/2020 Dr. K. M. Palaniswamy Professor. Mr. Rajesh Kumar Kaushal Asst. Prof. and Mr. Jesudas J. Asst. Prof.
- National level E-Quiz contest on "Signals & Systems and Image processing" was conducted from 03/07/2020 to 06/07/2020 Prof. Ruckmani Divakaran, Dean Academics, Mrs. Jenitha A. Associate Prof. and Dr. T. Bhuvanendhiran Associate Prof.

#### Webinars, FDP, Workshop, STTP and Online Courses Attended by Faculty Members

- Prof. Ruckmani Divakaran, Dean Academics, attended four webinars and one FDP
- Dr. Palaniswamy K.M Professor, attended six webinars and one FDP
- Mrs. Vijaya Bharathi M. HOD attended two webinars and completed one online course
- Mrs. Jenitha A. Associate Prof. attended twenty-four webinars, twenty FDP, three Short Term Training Programs and completed sixteen online courses
- Mrs. Inbalatha K. Associate Prof. attended 138 webinars, twenty-one FDP, seven workshops, five Short Term Training Programs
- Mrs. Vijaya Geetha R. Associate Prof. attended four webinars, one FDP
- Dr. T. Bhuvanendhiran Associate Prof. attended four webinars, six FDP, one workshop and completed two online courses
- Mr. Rajesh Kumar Kaushal Asst. Prof. attended seven webinars, three FDP, one workshop



## DEPARTMENT ACTIVITIES

- Mrs. Kanimozhi S. Asst. Prof. attended seven webinars, seven FDP
- Mr. Srinivas Babu N. Asst. Prof. attended six webinars, four FDP, one workshop and completed one online course
- Mr. Shashikiran S. Asst. Prof. attended six webinars, four FDP and one workshop
- Mrs. Manjushree K. Chavan Asst. Prof. attended three webinars, five FDP
- Ms. Tamilvani R. Asst. Prof. attended thirty webinars, fourteen FDP, five workshops and completed three online courses
- Ms. Mohana C. Asst. Prof. attended twenty-two webinars, fourteen FDP, two workshops
- Mrs. Nandini G. N. Asst. Prof. attended seven webinars, eleven FDP and completed two online courses
- Mr. Jesudas J. Asst. Prof. attended ten webinars, eight FDP and one workshop
- Dinesh Spicer Sham S, Sindhu Kavi A.G, Siniya S. and Sonali Sanjana S of final year presented the paper on the title "Lane Detection for Self-Driving Cars Using Deep Neural Networks" under the guidance of Mr. Srinivas Babu N. Asst. Prof. and Mr. Jesudas J. Asst. Prof. Volume 8 issue 9
- Keerthi G. Kanchana K. Sumaiya Fathima and Shalini R. of final year presented the paper on the title "Heart Disease Prediction Using Intelligent Based Machine Learning System" under the guidance of Mr. Shashi Kiran S. Asst. Prof. and Dr. Bhuvanendhiran T. Associate Prof. In IJRAET Volume 8 Issue 9
- Kavitha S. B. Keerthana P. and Meena R. of final year presented the paper on the title "A Stratified approach to detect Rain and Blizzard in a Color Image" under the guidance of Mrs. Manjushree K. Chavan Asst. Prof. in IJRAET Volume 8 Issue 8
- K. Nithya, G. Pavithra and K. Shikha of final year presented the paper on the title "Perceptual Image Hashing based on Texture and Color" under the guidance of Ms. Tamilvani R. Asst. Prof., Ms. Mohana C. Asst. Prof. and Mrs. Kanimozhi S Asst. Prof. in IJRAET Volume 8 Issue 9

## Students Achievements

### Paper Published

- Akshayakumar M. Dinesh N. Krishna G. Katwa and Sunil Kumar R. of final year presented the paper on the title "Design of WSN Node for Forest Trees against Poaching Using IoT" under the guidance of Dr. K. M. Palaniswamy Professor, In IJRAET Volume 8 issue 10.
- Shambhavi, Soumya C. Sushmitha Ganig M. and Yeshwitha J. of final year presented the paper on the title "A Disaster Monitoring Technique of: Iceberg Movement Detection using Active Sensor Images" under the guidance of Mrs. R. Vijaya Geetha Associate Prof., in IJRAET Volume 8 issue 10
- Rithick G, Sai Sushanth L. Sagar A. N and Santosh Kumar P. of final year presented the paper on the title "Eco-Friendly and Self Powered IOT Using Piezoelectric Energy Harvesting under the guidance of Mr. Rajesh Kumar Kaushal, Asst. Prof. in IJRAET Volume 8 issue 10
- C.R. Gayathri, C.P. Priyanka, G.M Ramya and K. Sanjay of final year presented the paper on the title "Detection of Micro Aneurysms in Retinal Images using Machine Learning Techniques" under the guidance of Mrs. Devika S. Asst. Prof., In IJRAET Volume 8 Issue 8

### Webinar, Workshop and Online Courses Completed by Students

Students of 8th semester attended 6 webinars, 2 workshops and 10 online courses, students of 6th semester attended 123 webinars, 23 workshops and 61 online courses, students of 4th semester attended 3 webinars and one online course and Students of 2nd semester attended 4 webinars.

### Internship

- Preethi T. of 6th Semester, has attended 30 days Internship on "Internet of Things" conducted by PIE INFOComm Pvt Ltd and completed the project of "Design, Simulation and Implementation of Arduino Based Automatic Water Level Controller with LCD Display" from 29/08/2020 to 28/09/2020.
- Lavanya S. of 4th Semester, has completed the 4-weeks Internship/training on "Internet of Things (IoT)" organized by IETE in association with Industry Experts during January 13, 2020 to February 7, 2020 at IETE, Bengaluru
- Suvedita B. of 6th Semester, has completed 4 weeks Internship on "Machine Learning" in September 2020.

### Department Achievement

Received an approval for establishing a Research Centre for Department of Electronics and Communication Engineering



## DEPARTMENT ACTIVITIES

## DEPARTMENT OF CIVIL ENGINEERING

### Papers presented and Online Courses Completed by Faculty members

- Dr. Syed Ariff, Principal, Mrs. M. Maneela Associate Prof. Mr. Teerthananda Sagar C S Asst. Prof., Mr. Manjunath Singh Asst. Prof. and Mrs. Pooja Asst. Prof. published paper in 2nd International, (Virtual) conference on Recent Trends in Technology, Engineering & applied Science organized by DR. TTIT, KGF
- Mrs. M. Maneela Associate Prof. Mrs. Sonam Masane Asst. Prof., completed NPTEL Online Certification on "Remote Sensing Essentials" during Jan April 2020

### Webinars, FDP, Attended by the Faculty Members and Students

- Dr. K. Ramesh HOD, attended five days VFDP on "Stress Management"
- Dr. K Ramesh HOD, Attended National level Webinar on "Future of Higher Education in India – Turning Challenges into Opportunities"
- Mrs. Maneela M. Associate Prof. attended fifteen webinars and six FDP
- Mr. Praveen K. Asst. Prof. attended one webinar, two FDP
- Mrs. Sonamma Masane Asst. Prof. attended twelve webinars and three FDP
- Mr. Manjunatha Singh Asst. Prof. attended eighteen webinars and two FDP

- Mrs. Pooja Asst. Prof. attended seventeen webinars and four FDP
- Ms. Kavitha Asst. Prof. attended one webinar, two FDP and one workshop
- Mr. Teerthananda Sagar C. S. Asst. Prof. attended eleven webinars and five workshops
- Eight Students attended 31 webinars and 4 quizzes

### National Level Webinar conducted

Department of Civil Engineering Organized three days Virtual National Level workshop on "Civil Engineering Aspects" dated 22nd to 24th Oct 2020

### Webinars and Quiz Conducted

- Technical webinar on "Structural Health Monitoring in the construction Industry-Introduction & Business opportunity" on 21.05.2020 was conducted by Dr. Chandramouli Professor, PES College of Engineering, Bengaluru
- Technical E-Quiz on "Recent Advances in Civil Engineering" was conducted on 06.07.2020 to 08.07.2020 by Mrs. Pooja Asst. Prof.
- E-Quiz on "Transportation Engineering" was conducted on 20.07.2020 by Mr. Teerthananda Sagar C S Asst. Prof.
- E-Quiz on "Construction Technology" was conducted on 27.07.2020 to 29.07.2020 by Mr. Praveen K Asst. Prof.

### Department Achievement

Received an approval for establishing a Research Centre for Department of Civil Engineering

## DEPARTMENT OF BASIC SCIENCE & HUMANITIES

### Papers Published & Presented

- Mr. Mohana K. R. HOD of Chemistry, has published a paper titled "Antibacterial and Anticancer response of MgO nano particles prepared by solution combustion synthesis" in Scopus indexed international journal of Advanced science & technology VOL.29, No.8s, pp, 3668-3677
- Mr. Mohana K. R. HOD of Chemistry, has presented a paper "Cytotoxicity studies of MgO using aqueous leaf extract of Indigo Fera Tinctoria in National conference on synergetic research developments at GITAM university Bangalore on 12 March in chemical, biological and environmental sciences.

### Quiz Conducted

- Department of Engineering Chemistry, Dr.T. Thimmaiah Institute of Technology, KGF conducted online technical Quiz on "General Chemistry" from 11.07.2020 to 14.07.2020
- Department of Mathematics has conducted Five National level Online Quiz on "Applied Mathematics" from 09.07.2020 to 08.08.2020

### Webinars, Quiz and Conference Attended by the Faculty Members

- Dr. Kalyana Kumar S. attended eighteen webinars, one FDP program and five quizzes.
- Dr. Manjunath C. attended twenty webinars, three FDP, one National Conference and four quizzes.
- Mr. Mohana K. R. HOD of Chemistry, attended five FDP, fourteen quizzes, ten webinars and one International Conference
- Mrs. Sandhya. K. G. Asst. Prof. attended six webinars and seven quizzes.
- Mrs. Vinodhini C. Asst. Prof. attended twenty-two webinars, eight quizzes and four FDP
- Mrs. Archana N. Asst. Prof. attended thirty-four webinars, sixteen quizzes, five FDP and one international conference
- Mrs. Shailaja. S. R. Asst. Prof. attended five webinars and five quizzes.
- Mr. Manjunatha. S. Asst. Prof. attended eight webinars and four quizzes.
- Mr. Sriraksha Prakash Asst. Prof. attended four webinars, one FDP and six quizzes.



## DEPARTMENT ACTIVITIES

## ▶ DEPARTMENT OF TRAINING AND PLACEMENTS

### Designee ring Workshop on Innovation and Incubation Practices

In association with AGASTYA International Foundation and Industry Institute Interaction Center (IIIC) conducted two-week field workshop from 3rd Feb 2020 to 14th Feb 2020 on "Design and Engineering practices for innovation

and incubation" at Agastya Campus – Kuppam, AP. 80 pre-final year and final year students across all the departments participated and developed 12 real-time pre-incubated protocols and models.



Students participation in Agastya International Foundation



### Workshop on Enhancing Soft Skills

In association with 5AM Career Studio conducted 3 days. Workshop on "Enhancing Soft Skills" from 11.03.2020 to 13.03.2020 at Industry Institute Interaction Centre, Heritage Block, Dr. TTIT. Ms. Vijaya Ramaswamy and Ms. Pinkie Hirani were the session trainers.



Students participation in Agastya International Foundation ◀

### Idea – Pitching 2020

Dr. TTIT's Institution Innovation Council (IIC)- MHRD Govt. of India, had called for Inter-Departmental Idea/Innovation pitching contest on 13.03.2020 at Dr. TTV Smart Seminar Hall. The Contest was chaired by

Dr. H G Shenoy, President IIC- Dr. TTIT, the Contest had witnessed ten Idea/Innovations for the year 2020. The winning projects will be funded by the IIC-Dr. TTIT



Inter Department Innovation pitching contest by Dr. TTIT IIC



## DEPARTMENT ACTIVITIES

## QSPIDER CSR Training Drive – 2020

Conducted a Corporate Social Responsibility (CSR) Drive and the shortlisted students in QSpiders were sponsored for training cum placement program at Bangalore



Short listed Students for Training in Qspiders

### Students Placement

- Students of 2020 passed out batches were placed in various companies.
- Shali R. of ECE 8th semester and Sangeetha of EEE 8th semester were placed in Tata Consultancy Service
- Shakthi Amrutha of CSE 8th semester was placed in Infosys
- Priya D. of ECE 8th semester, Sindhu J. K of ECE 8th semester and Suma H of CSE 8th semester were placed in Wipro
- Aishwarya J. of CSE 8th semester, Ramya R. of CSE 8th semester, Chitra S of CSE 8th semester, Kanchana of ECE 8th semester, Minu Shruthi of EEE 8th semester, Shalini R of EEE 8th semester and Revathi R. of EEE 8th semester were placed in Wistron Narasapura unit
- Hemadarshini of CSE 8th semester and Rishi Bhat of Mechanical Engineering 8th semester were placed in Biju's
- Shambavi K. of ECE 8th semester, Narmada K. of CSE 8th semester, Prashanthi K. of CSE 8th semester, Nagakrupa of ECE 8th semester, Shree Rajini of CSE 8th semester, Sai Sushanth L. and Shalini R. of ECE 8th semester were placed in Morling Global
- Yeshwitha J. of ECE 8th semester, Soumya C. of ECE 8th semester, Pavithra P. of CSE 8th semester, Indhu G. of CSE 8th semester, Nivedha Y. of CSE 8th semester, Lakshmi Priya A. of CSE 8th semester, Shreresha V. of Mechanical 8th semester, Arbin Taj S. of Mechanical Engineering 8th semester, Clement Jeremiah A of Mechanical Engineering 8th semester and Zakir Hussain of CSE 8th semester were placed in Industry Era.



VTU Cross Country 2020 for Men and Women was conducted on 24th and 25th February 2020  
 It was inaugurated by Ms. Mohammad Sujeetha IPS, and Dr. Rajesh Director of Physical Education VTU. Forty one colleges participated, 151 Men, 70 Women and 24 PED's took part in the event.

Winners of Men's category NMAM Institute of technology Nitte, Runners were Alvas Institute of Engineering Moodabidri. Winners of Women's category NMAM Institute of Technology Nitte and Runners Alvas Institute of Engineering Moodabidri.



Inauguration of Cross Country race by Ms. Mohammad Sujeetha IPS, Dr. Rajesh Director of Physical Education VTU and Dr. Syed Ariff Prinicpal Dr. TTIT

### Relief during the pandemic for the needy by Dr.TTIT Management



### Standard Operating Procedures followed at Dr.TTIT



Temperature Checking at the Gate for all Staff and Students



All staff and students sanitize their hands at the entrance



Social distancing in class room



All the Staff members undergone Covid test



Social distancing in college bus