

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY



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MAY 2021

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'BETTER THAN A THOUSAND DAYS OF DILIGENT STUDY IS ONE DAY WITH A GREAT TEACHER'

On attaining superannuation age of 60 years, Professor K L Ratnakar, Department of E&EE, who has served for 34 years was accorded approval to retire from the services and was relieved from his duties and responsibilities of the institution on March 30th 2021. Sendoff was arranged for Professor by the department and the Institute in this regard.

Name: K. L. Ratnakar

Qualification: M.Tech., Ph.D

 $\label{lem:approx} \textbf{Area of Specialization: Power system with emphasis on high}$

voltage engineering.

Membership in professional bodies: MISTE, MIE,

Awards/Achievements: Best project award for final year project

in Technodia -2019, conducted by SSIT-STEP,

Tumakuru.



Books Published:

1."Electrical power transmission and distribution", new age international ltd., New Delhi.2016.

2. A Contribution to the third edition of text book "Electrical, Electronics and Computer Engi-

2. A Contribution to the third edition of text book "Electrical, Electronics and Computer Engineering for Scientists and Engineers".

He has published several papers in National/International Journals & Conferences.

He has also successfully completed his Ph.D. Viva-Voce examination under SSAHE (A Deemed to be University) under the guidance of Dr. B Rajesh Kamath, Professor, Department of E&EE, SSIT, Tumkur on 16th April 2021. His topic is "Study of Partial Discharge in Different Proportions of SF6-N2 Gas Mixtures".

Editor's message

- The Commissioner of Patents, Australian Government has granted the patent to Dr.H.V.Jayaprakash for the invention title "DEEP LEARNING BASED REAL TIME SMART DETECTION OF ACCIDENT VICTIMS ON HIGHWAYS" (Patent number: 2021101684) for a period of Eight years.
- Professor K L Ratnakar, Department of E&EE, who served for 34 years attained superannuation in April 2021.
- Dept of EEE organized Two weeks AICTE sponsored Faculty Development Programme (FDP) on Entrepreneurship and Innovation .
- Mr. Praveen kumar C, Assistant Professor, Coordinator, Entrepreneurship Development Cell, Department of Electrical and Electronics Engineering, SSIT, Tumakuru participated as Resource Person in the student induction programme on "Creative practices to Entrepreneurship" organized by Sri Krishna Institute of Technology, Bengaluru on 8th May 2021.
- Mr. K R Jagadisha, Assistant Professor, Dept of E&EE, has published Research paper titled "To study the characteristics of BDV for different electrodes using N2-SF6(90:10) gas mixture", in International Journal of all Research Education & Scientific Methods, dated 19th April 2021.
- Mr. D Ravi Prasad, Assistant Professor, Dept of E&EE and Dr. B Rajesh Kamath, Professor, Dept of E&EE has published Research paper titled "Effect of particle contamination on the partial discharge characteristics of pressurized air", in International Journal of Creative Research Thoughts, dated 19th April 2021.
- Dr. Renukalatha.S has submitted a project proposal titled "Development and Validation of AI and ML tool to diagnose TB patients using Chest X-ray images" as a co-investigator to ICMR on 15th May 2021 in collaboration with Sri Siddhartha Medical College, Tumkur.
- Prof Pushpa R and Dr. M Siddappa have published a research article titled "An Optimal way of VM Placement Strategy in Cloud Computing platform using ABCS Algorithm" in International Journal of Ambient Computing and Intelligence (Scopus Indexed).
- Dr Achyutha Prasad N has been selected as Editorial Team Member of International Journal of Advanced Scientific Innovation, an Open Access, Double-Blind Peer-Reviewed Journal.
- Mr. Shivaraju G D, Assistant Professor, Department of Civil Engineering has published two research papers in International journals.



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Faculty Achievements

1. AICTE Sponsored Two-Weeks Faculty Development Programme on "Entrepreneurship & Innovation" was organized from 31st March 2021 to 12th April 2021. Dr. L Sanjeev Kumar was Coordinator & Mr. Praveen Kumar C was Co-Coordinator of Faculty Development Programme.

- 2. Mr. K R Jagadisha, Assistant Professor, Dept of E&EE, has published Research paper titled "To study the characteristics of BDV for different electrodes using N2-SF6(90:10) gas mixture", in International Journal of all Research Education & Scientific Methods, dated 19th April 2021.
- 3. Mr. D Ravi Prasad, Assistant Professor, Dept of E&EE and Dr. B Rajesh Kamath, Professor, Dept of E&EE has published Research paper titled "Effect of particle contamination on the partial discharge characteristics of pressurized air", in International Journal of Creative Research Thoughts, dated 19th April 2021.
- 4. Mr. Shivaraju G D, Assistant Professor, Department of Civil Engineering published two journals with title "Study of Physical, Durable and Micro Structural Behaviour of Red Soil based Geopolymer Bricks" and "Study of Physical, Durable and Micro Structural Behaviour of Laterite Soil based Geopolymer Bricks" in The International Journal of Analytical and Experimental Modal Analysis.
- 5. Mrs Roopa M, Assistant Professor and Dr Venugopal H, Professor, Department of Civil Engineering, conference paper is tentatively accepted by the SPRINGER to publish as a book chapter in the Scopus indexed SPRINGER book "Sustainability Trends and Challenges in Civil Engineering" which will be online tentatively in the month of August.
- 6. Dr. Renukalatha S has submitted a project proposal titled "Development and Validation of AI and ML tool to diagnose TB patients using Chest X-ray images" as a co-investigator to ICMR on 15th May 2021 in collaboration with Sri Siddhartha Medical College, Tumkur.
- 7. Prof Pushpa R and Dr. M Siddappa has published a research article titled "An Optimal way of VM Placement Strategy in Cloud Computing platform using ABCS Algorithm" in International Journal of Ambient Computing and Intelligence (Scopus Indexed). 8. Dr. Achyutha Prasad N has peer reviewed research articles for "IEEE MysuruCon (2021 IEEE Mysore Sub Section Flagship International Conference).
- 9. Dr Achyutha Prasad N has been selected as Editorial Team Member of International Journal of Advanced Scientific Innovation, an Open Access, Double-Blind Peer-Reviewed Journal.
- 10. Dr Achyutha Prasad N has been selected as Editorial Team Member of Advanced Research Publications, an Open Access Journal.

Students Achievements

- 1. Veeranna Angadi(18CV108), Divyani K(18CV024), Goutham Sreeamaiah D (18CV028) and Manasa K D(18CV039) completed Robotic Process Automation fundamental training.
- 2. On may 1st and may 2nd online interview through google meet was conducted for the final year Civil Engineering students for the job role of site supervisor and technical trainee for SIRI charted and Engineers, there were 27 students participated in interview and results will be announced soon, coordinated by-Roopa M (Placement Coordinator) Civil Dept.

Faculty Development Programme



Two weeks Faculty Development Programme (FDP) on Entrepreneurship and Innovation (EAI2021) has been sanctioned by AICTE, New Delhi an amount of Rs. 5,24,500.00(Rs. Five lakhs twenty-four thousand five hundred only) has been released to conduct the FDP through OFFLINE mode. the participants shall be faculty from AICTE recognized engineering, polytechnic institutions and persons working in industry across India.

Dr. G Parameshwara, Hon'ble Chancellor, Sri Siddhartha Academy of Higher Education (SSAHE a Deemed-to-be University), Secretary, SSES is the chief Patron.

Dr. P Balakrishna Shetty, Hon'ble Vice-Chancellor, SSAHE, Dr. M Z Kurian, Registrar, SSAHE, Dr. M S Raviprakasha, Principal, SSIT are patrons. Dr. Chidanada Gavimath, Special officer, ED-Cell, VTU, Belagavi, Dr. B Rajesh Kamath, Professor, Prof. K L Ratnakar, Professor, Dr. G S Sheshadri, Professor, Dr. Prasanna Kumar T M, Professor and HOD, Dept. of MBA and Mrs. Srividya Nagaraju, Faculty, IIM-B are advisory committee members.

Dr. L Sanjeev Kumar & Mr. Praveen kumar C as Coordinator and Co-coordinator. The resource persons were from Indian Institute of Management (IIMs), CFTRI, NSIC, MSME, KSFC, In this context, the FDP was scheduled to conduct in offline mode during March and April 2021. Brochures and FDP schedule were given wide circulation across nation. FDP was conducted during 31st March to 12th April 2021 with Prof. K E Radhakrsihna, Educationist, Playwright, Writer, Musicologist and Political leader as Chief Guest, He inaugurated the progarmme on 31st March 2021 and delivered keynote address. Sri Muralidhar Halappa, Spokesperson, KPCC, Former Chairman, Skill Dept. Govt. of Karnataka, Dr. M Z Kurian, Registrar, SSAHE, Dr. M Siddappa, Dean (Academics), Dr. L Sanjeev Kumar, HoD and other dignitaries shared the dais.

Dr. Rajesh Kamath, welcomed all, Dr. G S sheshadri briefed about the department, Mr. Praveen kumar C briefed objectives of the programme and Sri. N Pradeep proposed vote of thanks. Participants from various districts across state participated and certificate was issued to all successful participants

Creative practices to Entrepreneurship



Mr. Praveen kumar C Assistant Professor,

Coordinator, Entrepreneurship Development

Cell, Department of Electrical and Elec- of Sri Krishna Institute of Technology tronics Engineering, SSIT, Tumak-

uru participated as Resource Person for student induction programme on "Creative practices to Entrepreneurship" organized by Sri Krishna Institute of Technology, Bengaluru on 8th May 2021.



8th May 2021 Department of Basic Science



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International Journal Publications JAYAPRAKASH H V , SHANTHALA H K

Development and Characterisation of Acetyl Salicylic Acid – Argenine Co-Crystals for Improved Dissolution

International Journal of Pharmaceutical Research, ISSN 0975-2366

International Journal of Pharmaceutical Research, ISSN 0975-2366 DOI: https://doi.org/10.31838/ijpr/2021.



Online Certificate Courses (National and International Webinars)

National Level one week Faculty Development Programme on Research Methodology, from 26-04-2021 to 01-05-2021. Organized by Amar Sewa Mandal's Kamala Nehru Mahavidyalaya, Nagpur. (Certificate no: 2QKSIY-CE000901).



One week AICTE sponsored online Short Term Training Programme (STTP) on "Emerging Trends in Nanomaterials for Electronic and Optoelectronic Devices" (Series 1: Synthesis and Functionalization of Nanomaterials). Organized by Department of Electronics & Communication Engineering from 10-05-2021 to 15-05-2021.



Digital Twin Technology

The digital twin is a digital or virtual copy of the physical product and its dynamics in all aspects. It covers the whole lifecycle of a product. Digital Twin describe the design of the product, how to manufacture the product and how the product behaves in operation, in service and in maintenance. If we have a digital twin that

really represents the physical product in the digital world, then we can optimize the system, adopt new ways of working and gain flexibility. Until optimal solution is obtained, we spend less resources like monetary resources and manpower. Thus, a product behavior can be simulated and tested long before a physical prototype has been built. It is more than a simulation and a kind simulation of many different models instead of one.

The term digital twin was first coined by Michel Grieves in 2002. Nasa was one of the first to use this technology for space exploration missions. Digital twin connects the real and virtual world by collecting data from the installed sensors. The data is evaluated and simulated in the virtual copy of the physical assets. This integration of real and virtual helps in optimizing the performance of the real assets. Digital twin can be used in manufacturing, automotive, construction, utilities, health care and so on. Digital twin is the next big thing in the fourth industrial revolution for the devel-

opment of new products and processes.

For example, manufacturing an aircraft machine can be a complex and costly process. Assembling the first prototype from the parts that haven't been developed to test it together often cause problem and getting everything to function properly may require significant

amount of time, material and effort. We can combine the all plans for our machine into a single virtual model called digital twin. The machine can be tested in different environments and on the actual task that it has been designed. We will be able to detect potential problems before anything even been built. Beyond this digital twin facilitates to monitor aircraft machine in real time and detect potential failure or wear and tear of the machine well before any damage.

potential failure or wear and tear of the machine well before any damage.

Digital twin can be thought of as a living model that drives business outcome. They are also changing how technologies such as IoT, AI and analytics are optimized. Digital twin enables more profitable, safe and sustainable operations. Some of the companies offering digital twin services today are Cisco, IBM, Bosch, Microsoft Azure digital twin, Siemens, and

Prasanna Kumar M Asst Professor Dept of ISE



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PHOTO GALLERY

Felicitating to Chief Guest Prof. K E Radhakrsihna, Educationist, Playwright, Writer, Musicologist and Political leader

group photo of all the participants in Valedictory programme on 12th April 2021







ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನ ಕ್ಷೇತ್ರದಲ್ಲಿ ನವೋದ್ಯಮಗಳನ್ನ ಆರಂಭಿಸಲು ಬಯಸುವವರಿಗೆ ಉದ್ಯಮಗಳ ಬಗ್ಗೆ ಮಾಹಿತಿ



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ತ್ರಕ ಕಾರ್ಯಗಾರಗಳು ಪ್ರಯೋಜನಕಾರಿ ಎಂದ ಮೈ ತಿಳಿಸಿದರು. ಜೆ. ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಶ್ರೀ ಇಂಜಿನಿಯರಿಂಗ ನಿಮಿ ಕಾಲೇಜಿನ ಪ್ರಾಧ್ಯಾಪಕರಾದ ಶೇಷಾದ್ರಿ, ಪ್ರವೀಣ

^{ಶಿಕ್ಷಣ ತಜ್ಞ ಪ್ರೊ.ಕೆ.ಇ.ರಾಧಾಕೃಷ್ಣ ಕಿವಿಮಾತು} ಆರ್ಥಿಕ ದೃಢತೆಗೆ ಯೋಜನೆ

ತಮತೊಂದು ಅರ್ಭ ತರ್ಮವು ಕ್ಷೇವರ್ನ ಪರೀಸ್ತರು ಹಾಗೆದ್ದು ಹರುವುದು ಬದುರಾವವರ ಸಂಪ್ರದಾಣ ಆ್ಯೆ ಮಾಡಿಸಿತ್ತು, ಉಪ್ಪರ್ಥಕ ಪ್ರಾರೋಶಕ ಮಾಡಿಸಿತ್ತು ಸಂಪ್ರದೇಶ್ ಮಾಡಿಸಿತ್ತು ಸಂಪರ್ವಾಗ ಪ್ರಚರ್ಣ ಸ್ಥಾರ್ಡಿಕರ್ ಮಾಡಿಸಿತ್ತು ಸಂಪರ್ಧಾಗಿ ಸಂಪ್ರದಾಣ ಮಾಡಿಸಿತ್ತು ಸ್ಥಾರ್ಥಿಕರು ಮಾಡಿಸಿತ್ತು ಸ್ಥಾರ್ಥಿಕರು ಸಂಪ್ರದಾನಿಕರು ಪರ್ವವಾಗಿತ್ತು ಪರ್ವವಾಗಿತ್ತು ಪರ್ವವಾಗಿತ್ತು ಸಂಪ್ರದಾನಿಕರು ಪರ್ವವಾಗಿತ್ತು ಪರ್ವವಾಗಿತ್ತು ಸ್ಥಾರ್ಥಿಕರು ಎಂದು ತಿಕ್ಷಣ ಪ್ರಥ್ಯ ಪ್ರಕ್ಷಾಣ ಸಂಪ್ರದಾನಿಕರು ಪ್ರವರ್ಥ ಪ್ರಕ್ಷಾಣ ಸ್ಥಾರ್ಥಿಕರು ಎಂದು ತಿಕ್ಷಣ ಪ್ರಥ್ಯ ಪ್ರಕ್ಷಾಣ ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರಿಸುವ ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರರು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರರು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ್ಥಾರ್ಥಿಕರಿಸು ಸ

ತ್ರೀ ಸಿದ್ದಾರ್ಥ್ ಇನ್ನಿ ಬ್ಯೂಟ್ ಆರ್ ಚಿಕ್ಕಲಡೆ ವಿಧಾನವ ಎಲೆಕ್ಟರ್ ರಂಡ್ ಎಲೆಕ್ಟರ್ ಅಂಡನಿಯರಿಂಗ್ ವಿಧಾನವ ಜಿಕೆಯಿಂದ ಎರಡು ವಾರದ ಸಾವಸ್ಥಾನಕ್ಕೆ ಉದ್ಯಮಿಕಿಂತ ಅಧಿವೃತ್ತಿ ಕಾರ್ಯಗಾರ್ ಹಾರಣಿ ನಿನ್ನೆ ಮಹನಾನದರು.

स्थान व्यक्तिका सार्वाकारक प्रदान सामान्य स्थान स्यान स्थान स्थान



ರಾಜ್ಯದ ನಿರ್ದೇಶ್ವ ನಿರ್ದೇಶ್ವ ನಿರ್ದೇಶ್ವ ನಿರ್ದೇಶ್ವ ಸಾರ್ಜ್ ವಿಶ್ವದ್ದಾ ನಿರ್ದೇಶ್ವ ನೀಟ್ ಮಾಡಿದ್ದಾರೆ ಕುಂದುರ್ ಮಾನಾವಿ, ರವ್ಯ ಮಾಡಿದ್ದಾರೆ, ವ್ಯಕ್ತಿಯ ರಾಜ್ಯಕ್ಷನಾಗಾ ಯೋಜನೆಗಾಗಿ, ಅರೋಜನೆಗಾಗಿ, ವ್ಯಕ್ತಿಯ ಮತ್ತುಲ್ಲದೆಗೆಯ ಪ್ರಮುಖ್ಯಕ ಮತ್ತು ಉದ್ಯ ಮಹಿಳುವೆಯ ಕಾರ್ಯಾಡ್ ಬಗ್ಗೆ ಪ್ರವರಣಗಳು ಕೇಳಿದರು.

ತ್ರೀ ಸಿದ್ದರ್ಶ ಬರುವರಿಂಗ್ ಕುರೇಜ್ ಪ್ರಯಾದಿಯ ಕುರೇಜ್ ಪ್ರಭಾದಿಯ ಪ್ರಭಾಗಿಯ ಪ್ರಭಾದಿಯ ಪ್ರಭಾಗಿಯ ಪ್ರಭಾಗಿಯ

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Paper cuttings



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