K. S. INSTITUTE OF TECHNOLOGY BANGALORE-109

ANNUAL REPORT

COLLEGE LEVEL EVENTS:

1. "INTERNAL SMART INDIA HACKATHON 2022" was organized by the Department of Computer Science and Engineering on 11th April 2022 at K.S. Institute of Technology, Bangalore. It is an open house event. The students from different branches had participated in this event. The event included a mentoring session by the faculty of Computer Science and Engineering department. The event was accompanied by prominent jury members consisting of Mr. Pradeep Kumar G H, Senior System Engineer, IBM and Mr. Narasimha Prasanna H N, Software developer. The best 10 teams were identified to take part in Smart India Hackathon 2022 throughout the country.

2. Department of Computer Science and Engineering hosted a Sentinel Hack 3.0 with the theme "**Multiverse of Opportunities**" in association with Board for BITES, during 20th and 21st June 2022. The event was organized by the CSE Firefox students club at K. S. Institute of Technology, Bangalor. Supporting the concept of Aatmanirbhar Bharath the brain child of our honorable Prime minister, Shri Narendra Modi. This provided a platform for the students to exhibit their coding abilities in various domains like Agriculture, Education, Cyber Security, Fintech, Healthcare and Open Innovation Category. This enabled the students to innovatively think and solve real world problems. Sixty (60) teams with over 200 participants all over Karnataka had taken part in this event that was adjudged by eminent academicians and industrialists.

3. Two days National Conference on "**Recent Innovations in Engineering – 2022**" was organized by the department of Computer science and Engineering, Electronics and Communication Engineering and Mechanical Engineering was conducted from 20th-21st June 2022. 162 papers were presented in various sessions.

4. Three FDPs and an Staff training Program was conducted during the academic year 2021-22.

- FDP on **"Wireless Communication: A Practical Approach"** was conducted from 9th-10th October 2021.
- FDP on **"Patent Drafting: Basics"** was conducted on 17th November 2021.

- FDP on "**Outcome Based Education**" was conducted from 17th to 19th March 2022
- Three days STP on **"Capacity Building"** was conducted from 4th to 6th April 2022, for the non-teaching faculty of KSIT.
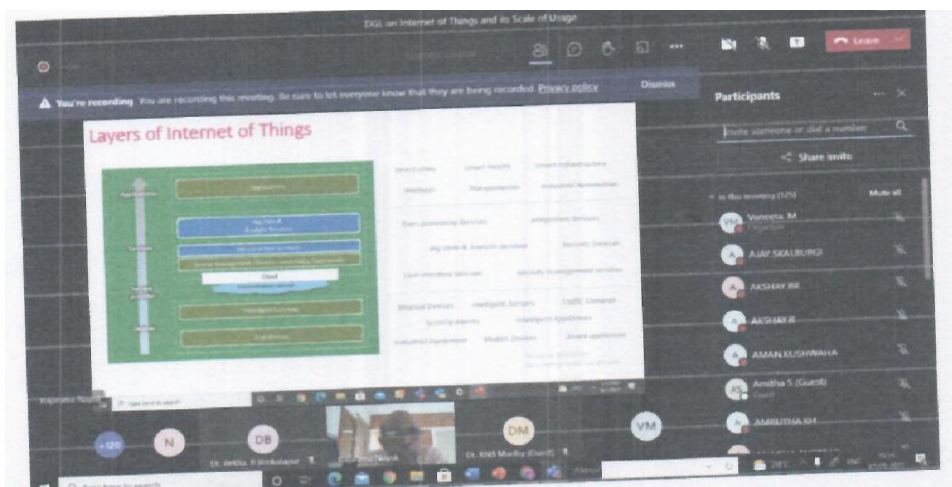
COMPUTER SCIENCE AND ENGINEERING:

Events Conducted by the Department:

1. The Department of Computer Science and Engineering in association with ISTE Organized **"Design Innovation for Successful Career in the Field of Aviation"**, on 17th Jul 2021.
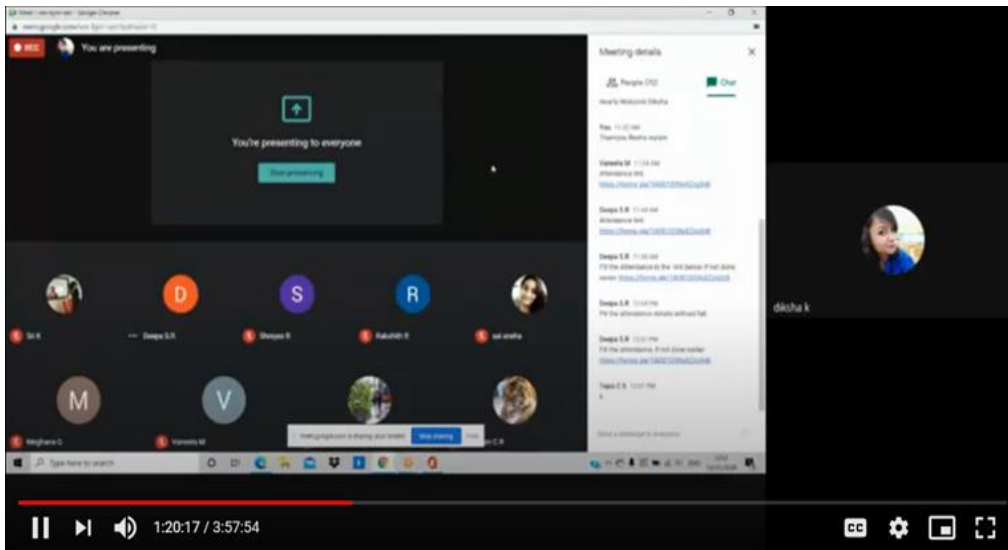
2. The Department of Computer Science and Engineering in association with BITES Organized **"Internet of Things and its Scale of Usage"**, on 1st Sep 2021

3. The Department of Computer Science and Engineering Organized Seminar **"Microsoft**

Certification", on 25th Oct 2021.

4. The Department of Computer Science and Engineering in association with BITES Organized a Distinguished Guest Lecture **"Design Thinking and Innovation"** on 24th Nov 2021

5. The Department of Computer Science and Engineering in association with Alumni Banner Organized talk on **"Entrepreneurship"** on 26th Nov 2021.

6. The Department of Computer Science and Engineering in association with BITES and TCS Organized **"13th Edition of the Engineering IT Quiz - TCS TechBytes 2022"** on 19th February 2022.

7. The Department of Computer Science and Engineering in association with IEEE, IETE, CSI Organized Faculty Development Program "**Outcome Based Education"** on 17th and 18th March 2022.
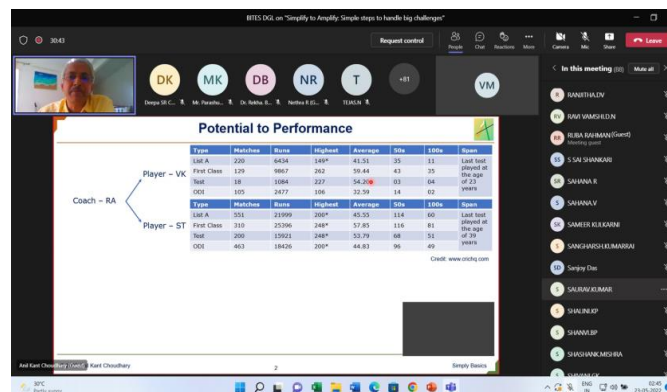

8. The Department of Computer Science and Engineering Organized Staff Development Programme **"Capacity Building",** on 4th to 6th April 2022. Resource person Dr. V Ragh, Principal, Silicon City College of Management & Commerce, Bengaluru.

9. The Department of Computer Science and Engineering Organized **"Internal Smart India Hackathon 2022 (Github Hackathon)",** on 11th April 2022.

10. The Department of Computer Science and Engineering in association with BITES Organized a Distinguished Guest Lecture on **"Simplify to Amplify: Simple Steps to Handle Big Challenges"** on 23rd May 2022.

11. The Department of Computer Science and Engineering organized workshop on "**C++: Try Learn It"** on 24th and 25th May 2022.

12. The Department of Computer Science and Engineering Organized a technical talk on "**Research Paper Writing and Ethics"** on 8th June 2022.

13. The Department of Computer Science and Engineering organized "**Sentinel Hack 3.O**", on 20th and 21th June 2022.

14. The Department of Computer Science and Engineering in association with BITES, IEEE, AICTE – SPICES and CSI organized "**National Conference- Recent Innovations in Engineering – 2022",** on 23rd to 24th June 2022.

15. The Department of Computer Science and Engineering in association with AICTE – SPICES and CSI, Organized "**Mini Project Exhibition",** on 25th June 2022.

16. The Department of Computer Science and Engineering in association with BITES, IEEE, AICTE – SPICES and CSI, Organized " **Project Exhibition",** on 25th June 2022.

Events attended by Faculty:

1. **Mr. Kumar K** attended a FDP on "**Multi – Technology" organized by** Dr. Rajendra Gode Institute of Technology & Research, Amaravati from 28th June to 3rd July 2021.

2. **Mr. Kumar K** attended Webinar on "**Atmanirbhar Bharat"** organized by Siddaganga Institute of Technology on 2nd July 2021.

3. **Dr. Vaneeta M** attended a FDP on "**Practical insight into key concepts of Blockchain"** organized by AICTE, New Delhi from 12th to 16th July 2021.

4. **Dr. Deepa S R** attended a FDP on "**Machine Learning Frontiers in Healthcare**" organized by AICTE, New Delhi from 26th to 30th July 2021.

5. **Dr. Vijayalaxmi Mekali** attended Workshop on "**IOT & Robotics Workshop – Learn to Build the Future**" organized by HKBKCE from 30th July to 1st Aug 2021.

6. **Dr. Vijayalaxmi Mekali** attended FDP on "**Emerging Trends in Computation**" organized by **M S Ramaiah Institute of Technology** from 2nd to 6th Aug 2021.

7. **Dr. Vaneeta M** attended a FDP on "**Emerging Trends in Computation**" organized by MSRIT from 2nd to 6th Aug 2021.

8. **Dr. Deepa S R** attended a FDP on "**Emerging Trends in Computation**" organized by MSRIT from 2nd to 6th Aug 2021.

9. **Dr. Vijayalaxmi Mekali** attended FDP on "**Research Innovation & Recent Trends in Electrical & Electronics Engg**" organized by **SJBIT** from 16th to 20th Aug 2021.

10. **Dr. Deepa S R** attended FDP on "**Research Innovation & Recent Trends in Electrical & Electronics Engg**" organized by **SJBIT** from 16th to 20th Aug 2021.

11. **Mrs. Beena K** attended FDP on "**Research Innovation and Recent Trends in E&EE**" organized by SJBIT from 16th to 20th Aug 2021.

12. **Mrs. Ranjitha K N** attended FDP on "**Research Innovation and Recent Trends in E&EE**" organized by SJBIT from 16th Aug to 20th Aug 2021.

13. **Mrs. Beena K** attended FDP "**Feature Engineering in Data Science & Deep Learning Models**" organized by GAT on 25th to 29th Aug 2021.

14. **Mrs. Rashmi H** attended Training Program "**Feature Engineering in Data Science & Deep Learning Models**" organized by GAT on 25th to 29th Aug 2021.

15. **Mrs. Pallavi K N** attended Training Program "**Feature Engineering in Data Science & Deep Learning Models**" organized by GAT on 25th to 29th Aug 2021.

16. **Mrs. Ranjitha K N** attended FDP on "**Feature Engineering in Data Science & Deep Learning Models**," organized by GAT from 25th Aug to 29th Aug 2021.

17. **Mrs. Beena K** attended FDP on "**Mathematics in AI ML and DL**" organized by KLE Institute of Technology, Hubli from 1st Sep to 5th Sep 2021.

18. **Dr. Deepa S R** attended FDP on "**Artificial Intelligence and Machine Learning**" organized by RNSIT from 29th Sep to 1st Oct 2021.

19. **Dr. Deepa S R** attended a Webinar on "**Insights of Paper publication**" organized by CSI, Kancheepuram Chapter on 29th January 2022.

20. **Mrs. Geetha R** attended on Faculty Development Programme on **"Thrust areas in Artificial Intelligence: A Multidisciplinary Approach"** organized by JSS Mahavidyapeetha, Mysuru from 7th to 11th February 2022.

21. **Dr. Deepa S R** attended a Webinar on **"Outcome Based Education"** organized by CSI, Kancheepuram Chapter on 12th February 2022.

22. **Mrs. Geetha R** attended on Training Programme on **"An overview of Teaching Techniques in mathematics laboratory using Python Programming"** organized by AICTE-VTU Joint Teachers Training Program, VTU from 21st to 25th February 2022.

23. **Dr. Vaneeta M** attended on Faculty Development Programme on **"Quantum Computing: Challenges and Opportunities"** organized by Meerut Institute of Engineering & Technology, Meerut, UP from 28th February to 5th March 2022.

24. **Mrs. Rashmi H** attended on Training Programme on **"Universal Human Values – An Overview"** organized by VTU Human Resource Development Centre (VTU-HRDC), VIAT, Muddenahalli, Chikkaballapur from 2nd to 6th March 2022.

25. **Dr. Deepa S R** attended a Webinar on **"Types and Functions of Copywriting"** at VVCE, Mysore on 14th March 2022.

26. **Dr. Deepa S R** attended a Webinar on **"Digitalization in Learning Technology"** at VVCE, Mysore on 15th March 2022.

27. **Dr. Deepa S R** attended a Webinar on **"Development of Motion Capture Technology and Implementation on Animation"** at VVCE, Mysore on 16th March 2022.

28. **Dr. Rekha B Venkatapur** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

29. **Mr. Harshavardhan J R** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

30. **Dr. Deepa S R** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

31. **Dr. Vaneeta M** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

32. **Dr.Vijayalaxmi Mekali** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

33. **Mr. Sanjoy Das** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

34. **Mr. Roopesh Kumar B N** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

35. **Mr. Kushal Kumar B N** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

36. **Mr. Kumar K** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

37. **Mr. Raghavendrachar S** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

38. **Mr. Krishna Gudi** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

39. **Mr. Prashanth H S** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

40. **Mr. Beena K** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

41. **Mr. Manoj Kumar S** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

42. **Mrs. Geetha R** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

43. **Mrs. Pallavi K N** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

44. **Mrs. Rashmi H** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

45. **Mrs. Pavithra J** attended on Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17th to 19th March 2022.

46. **Mrs. Pallavi K N** attended on Faculty Development Programme on **"Introduction to Research"** organized by NPTEL- AICTE from February to April 2022.

47. **Dr. Rekha B Venkatapur** attended on Faculty Development Programme on **"ICT Tools for innovative Teaching & Learning Process"** organized by RVITM, Bengaluru from 28th March to 1st April 2022.

48. **Dr. Vaneeta M** attended on Faculty Development Programme on **"ICT Tools for innovative Teaching & Learning Process"** organized RVITM, Bengaluru from 28th March to 1st April 2022.

49. **Dr. Vijayalaxmi Mekali** attended on Faculty Development Programme on **"ICT Tools for innovative Teaching & Learning Process"** organized by RVITM, Bengaluru from 28th March to 1st April 2022.

50. **Mrs. Geetha R** attended on Faculty Development Programme on **"ICT Tools for innovative Teaching & Learning Process"** organized by RVITM, Bengaluru from 28th March to 1st April 2022.

51. **Mrs. Pallavi K N** attended on Faculty Development Programme on **"ICT Tools for innovative Teaching & Learning Process"** organized by RVITM, Bengaluru from 28th March to 1st April 2022.

52. **Mrs. Rashmi H** attended on Faculty Development Programme on **"ICT Tools for innovative Teaching & Learning Process"** organized by RVITM, Bengaluru from 28th March to 1st April 2022.

53. **Mrs. Vimala Kumari V** attended on Staff Training Programme on **"Capacity Building"** organized by KSIT, Bengaluru from 4th to 6th April 2022.

54. **Mr. S Om Prakash** attended on Staff Training Programme on **"Capacity Building"**organized by KSIT, Bengaluru from 4th to 6th April 2022.

55. **Mr. Babu G** attended on Staff Training Programme on **"Capacity Building"** organized by KSIT, Bengaluru from 4th to 6th April 2022.

56. **Mrs. Divya R G** attended on Staff Training Programme on **"Capacity Building"** organized by KSIT, Bengaluru from 4th to 6th April 2022.

57. **Mrs. Akshatha M** attended on Staff Training Programme on **"Capacity Building"** organized by KSIT, Bengaluru from 4th to 6th April 2022.

58. **Mrs. Geetha T** attended on Staff Training Programme on **"Capacity Building"** organized by KSIT, Bengaluru from 4th to 6th April 2022.

59. **Mrs. Lokamani** attended on Staff Training Programme on **"Capacity Building"** organized by KSIT, Bengaluru from 4th to 6th April 2022.

60. **Dr. Deepa S R** attended on Faculty Development Programme on **"Cyber Security and Blockchain Technologies"** organized by East Point College of Engineering and Technology, Bengaluru from 5th to 9th April 2022.

61. **Dr. Rekha B Venkatapur** attended a Workshop on **"Fine Tuning of NEP Compliance Syllabus – Disciplines under CSE Board of VTU"**at SJCIT on 20th April 2022.

62. **Dr. Rekha B Venkatapur** attended a Webinar on **"Getting Started with Data science"** at Infyni on 23rd April 2022.

Publications in International Journals:

1. **Dr.Rekha B Venkatapur**, "OBJECT DETECTION ON PANORAMIC IMAGES USING YOLOv5" 8th International Mardin Artuklu Scientific Researches Conference, 4th to 6th, 2022 / Mardin, Turkey, organized by Institute of Economic Development & Social Researches.

2. **Dr.Rekha B Venkatapur**, **"A Survey on Object Detection Techniques in Panoramic images and Videos"** International Korkut Ata Scientific Researches Conference June 28th to 30th June 2022, Osmaniye, Turkey, OsmaniyeKorkut Ata Univesity**.**

3. **Dr.Rekha B Venkatapur**, **Somasekhar T** "**Quality Assessment System for Air Pollution Control in India through calibration and Machine Learning Algorithm**" International Conference on Intelligent Systems & Computation (ICISC – 2022),6th to 7th May 2022, at Poornima Institute of Engineering & Technology, Jaipur.

4. **Dayananda R B, R Ramya, Vedavedya B H, Veera Sreenidhi, Venkatesh M N** "**Survey on Diabetes Prediction Using Different Machine Learning Approaches**" International Journal of Creative Research Thoughts An International Open Access, Peer-reviewed, Refereed Journal (IJCRT) on May 2022, ISSN-2320-2882.

5. **Dr.Rekha B Venkatapur, Shashank Mishra, Maddula Jitendra, Saurav Kumar, Arvind Pathak**, "**A Survey on Anti-Keylogger**" International Journal of Current Science An International Open Access, Peer-reviewed, Refereed Journal (IJCSPUB) on April 2022, ISSN-2250-1770.

6. **Dr. Rekha B Venkatapur "Intelligent Surveillance System to detect Moving Drones Equipped with Weapon Payloads"** Journal of Optoelectronics Laser, Scopus, ISSN-0086, vol:41, issue 09, PP: 57, 2022, wit DOI: 10050086.2022.09.64.

7. **Dr. Rekha B Venkatapur "Automatic Tracking of Objects Using Improvised Yolov3 Algorithm and Alarm Human Activities in case of Anomalies"**, International Journal of Information Technology, ISSN(2511-2112), SPRINGER, 2022, with DOI: 10.1007/s41870-022-01062-0.

8. **Dr. Rekha B Venkatapur "An Adaptive YOLO Object Detection Model for Autonomous Driving System"**, Journal of Huazhong University of Science and Technology, ISSN-1671-4512,

vol 50, Issue 4.

9. **Dr. Rekha B Venkatapur "A SURVEY ON ANTI - KEYLOGGER"**, International Journal of Current Science (IJCSPUB), www.ijcspub.org © 2022 IJCSPUB | Volume 12, Issue 2 April 2022 | ISSN: 2250-1770, 2nd April 2022.

10. **Mr. Raghavendrachar S, Sunaina Nayak, Vishnupriya D, Ruba Abdul Rahman, Krithika K N** "**Wearable Safety Device for Children**" International Journal for Research in Applied Science & Engineering Technology (IJRASET) on April 2022, ISSN-2321-9653.

11. **Mr. Krishna Gudi, Monica S, Aruna P, Dhruv Jyoti Shukla, Dhanlakshmi B, "Movie Recommendation System using ML"**, Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on April 2022, ISSN-2349-5162.

12. **Raksha S, Samhitha, Raipalle Shreyaa, Pranav M S** "**Survey on Blockchain-based Anonymous Tip-off system**" International Journal of Innovative Science and Research Technology (IJISRT) on April 2022, ISSN-2456-2165.

13. **Mr. Raghavendrachar S, Poojashree K, Preethi K, Rekha N C, Shalini S** "**A New IoT Gateway for Smart Agriculture**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on April 2022, ISSN-2349-5162

14. **Prashanth H S, R Dekshitha, Swetha Bijjanapalli, Yogita Raikar, T Hemanth Chowdary** "**Survey on Personal Assistant for Visually Impaired**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on April 2022, ISSN-2349-5162.

15. **Mr. Krisna Gudi, Anushruti Singh, Bhuvana Chandrika G, Kandimalla Krishna Pavithra, Vinuthna Vani Kovvuru,** "**LitWit-Learning with Understanding**" on April 2022 Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR), ISSN-2349-5162.

16. **Dr. Deepa S R , Goutham M, Dhananjaya S, Kiran V Dambal, Ganesh A** "**A Survey on Hard Gesture Recognition for Differently Abled People**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on April 2022, ISSN-2349-5162.

17. **Mrs. Pallavi K N ,Praveen Kumar K,P Sai Ram, Rakshith Kumar N, Pavan P** "**Blockchain Based E Voting System**" Journal of Emerging Technologies and Innovative Research An

International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on April 2022, ISSN-2349-5162.

18. **Mrs. Beena K, Shivangi Srivastava, Subhashini R, Vijayashree N R, "E-HIRE"** Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on April 2022, ISSN-2349-5162.

19. **Mrs. Sougandhika Narayan , Yashwanth K, Sudhakar Yashwanth, Pateek Havale, Vinod H Malali "Face Mask Detection"** Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) April 2022 ISSN-2349-5162.

20. **Mr. Roopesh Kumar B N, Likitha S, Bhagyashree V, Bi Bi Ayesha, Shalini K P "Dataset Shift Quantification for Credit Card Fraud Detection using Machine Learning"** International Journal of Current Science An International Open Access, Peer-reviewed, Refereed Journal (IJCSPUB) on April 2022, ISSN-2250-1770.

21. **Dr. Vijayalaxmi Mekali , Chaitra K, Meghashree A, Bhoomika H, Lavanya C R, "Detection and Segmentation of Corona Virus Infected Region of Lung in CT images by using Deep learning approach"** Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on April 2022, ISSN-2349-5162.

22. **Dr. Vijayalaxmi Mekali , Mahesh B V, Manikonda Tharun, L Sharandeep Chowdary, "Visualizing and Forecasting Stocks Using Dash"** Journal of Emerging Technologies and Innovative Research , An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on April 2022, ISSN-2349-5162.

23. **Mrs. Beena K , Ranjitha H D, Sushmita B K, Ramya R, Bhavyasgree R, "Research on AI-Based System for COVID-19 Prevention"** Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on March 2022, ISSN-2349-5162.

24. **Mr.Harshavardhan J R, Shashank G, Harshith C Prasad, Gunal Binani, Bhagawat Gowtam "Survey on Developing a Secured E-Commerce Application for Purchasing Electric Vehicles"** Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on March 2022, ISSN-2349-5162.

25. **Dr.Dayananda R B, Anuhya Kulkarni,, Madhusudhan G,Pavithra K R, Prerana D S, "Suspect Identification Alert System"**, Journal of Emerging Technologies and Innovative

Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on March 2022, ISSN-2349-5162.

26. **Mr.Kushal Kumar B N , B R Gagan, Shivprakash T, Vaishak P, Thirumalai Shaktivel** "**Design of a New Language seeks Literature Survey**" International Journal for Research in applied Science &amp, Engineering Technology (IJRASET) on March 2022, ISSN-2321-9653.

27. **Mrs.Swapna G, Adarsh K, Aniketh H, Latha V, M Sreelakshmi** "**Diwali Sales Prediction Using Machine Learning**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on March 2022 ,ISSN-2349-5162.

28. **Roopesh Kumar B N, R Soumya, Sri Chandana P, Vijetha, Sushmitha S** "**Survey on Enhancing the performance of Antiphishing Mechanism using Machine Learning**" International Advanced Research Journal in Science, Engineering and Technology (IARJSET) on March 2022, ISSN (O)-2393-1588 ISSN (P)-2394-1588.

29. **Mrs.Geetha R , Avinash Prasad, Karthik K, Kavitha Chaudhary, Shewani Chib,** "**Survey on Art Gallery with E- Commerce**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on March 2022, ISSN-2349-5162.

30. **Mrs.Pavithra J, Kilari Jaswanth, Kencham Arun, B Deva Deekshith, Kilari Ashwik,** "**Analyzing and Predicting Outcomes of IPL Cricket Data**" International Research Journal of Engineering and Technology (IRJET) on March 2022, e-ISSN-2395-0056 p-ISSN-2395-0072.

31. **Mrs.Rashmi H, Narasinha Maiya G S, Gaganasuri M S, Maharaj S, Nikil B S** "**Survey on Chronic Kidney Disease Prediction using Machine Learning**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on March 2022, ISSN-2349-5162.

32. **Mrs.Geetha R , Aritra Ray, Saurav Suman, Sovik Mandal,** "**Chrome Extension for Dropdown Code Editor**" Journal of Emerging Technologies and Innovative Research " An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on March 2022, ISSN-2349-5162.

33. **Dr.Deepa S R, R Pratiksha, Sourabh Santosh Kamble, Sudhanshu Joshi, Sujay G S,** "**Bird Species Identification –A Survey**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on March 2022, ISSN-2349-5162.

34. **Mrs. Sougandhika Narayan, Mikkin K M, Madhusudhan S R, Nagarujun N, Lokesh R** "**Survey on Rice Leaf Disease Detection using Machine Learning and Deep Learning Techniques**", Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR), ISSN-2349-5162.

35. **Mr.Roopesh Kumar B N, Nitish Kumar M R,Sandeep Kumar, Pullur Pavan Kumar, Vijay N S** "**Anti-Poaching Detection System For forests**" International Advanced Research Journal in Science, Engineering and Technology (IARJSET) on March 2022, ISSN (O)-2393-8021, ISSN (P)-2394-1588.

36. **Dr.Vaneeta M Sindu A S,Supreetha G, Varidhi Madhuranath, Vyjayanthi K S**, "**Survey on Food Trace Using BLOCKCHAIN**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) on February 2022, ISSN-2349-5162.

37. **Mr. Kumar K, Amaravathi M, Chandan Kumar, Likhitha N, Nandini J K** "**Forest Fire Susceptibility Using Neural Network**" International Advanced Research Journal in Science, Engineering and Technology (IARJSET) on February 2022, ISSN (O)-2393-8021, ISSN (P)-2394-1588.

38. **Mr. Harshavardhan J R, Manvith P, Md Sujan, Nikhil Vasan**, "**Survey Paper on Online Whiteboard –A Web App for online whiteboard sessions**" on February 2022, ISSN-2394-1588.

39. **Dr.Vaneeta M, Ashwini J, Kruthika S Vasisht, Nikitha M, Srividya H R**, "**Survey on Industrial Air Quality Management System**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) ISSN-2349-5162, March 2022.

40. **Mr. Manoj Kumar S , Priyanka E, Sri Hari B Sondur, Sanjay D Hebbar,** "**Depression Analysis**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) ISSN-2349-5162, 2022.

41. **Mr.Manoj Kumar S , Brijesh S, Nikhil M, Narasimha Raju R, Rayyaan Mohiaddin** "**Airfare Prediction using Machine Learning**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) ISSN-2349-5162, 2022.

42. **Mrs. Rashmi H, Zaina Khan, Noor Sumaiya, Rithana N Raj** "**Optical Heart Rate Detection Via Webcam**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR) ISSN-2349-5162, 2022.

43. **Dr. Rekha B Venkatapur, Pujari Vishnupriya, Dandu Niharika, N Sai Jahanavi, Bhavani K G** "**Morse Code Security**" International Journal of Current Science An International Open Access, Peer-reviewed, Refereed Journal (IJCSPUB), ISSN-2250-1770, 2nd April 2022.

44. **Mr. Raghavendrachar S, Y Mrudula Jain, Akshay B R, Karthik P H, Sahana V** "**Human Dermis Cancer Detection**" Journal of Emerging Technologies and Innovative Research An International Scholarly Open Access, Peer-reviewed, Refereed Journal (JETIR), ISSN-2349-5162, April 2022.

Achievements by Faculty:

Paper Reviewer

1. **Dr. Deepa S R** invited as reviewer for "**Interference Minimization and Proportional Fairness Scheduling in D2D Communication Networks using Multi- Objective Gradient Based African Buffalo Optimization Algorithm**", Scopus Indexed Journal-Wireless Networks, Springer on Aug 2021.

2. **Dr. Rekha B Venkatapur,** invited as a reviewer for **"International Mardin Artuklu Scientific Researches Conference"** organized by Mardin, Turkey on 4th June 2022.

Session Chair

1. **Dr. Rekha B Venkatapur,** invited as a session chair for**"International Conference on Frontiers in Engineering, Management and Science (ICFEMS – 2022)"**organized APSCE, Bangalore on 27th and 28th April 2022.

2. **Dr. Rekha B Venkatapur,** invited as a session chair for **"8th National Conference on Advancements in Information Technology (NCAIT – 2022)"** organized JSSATE, Bangalore on 16th June 2022.

3. **Dr. Rekha B Venkatapur,** invited as a session chair for**"National Conference"** organized DSATM, Bengaluru on 28th June 2022.

4. **Dr.Vijayalaxmi Mekali,** invited as a session chair and reviewer for **"National Conference on Computing Technology – 2022"**organized by RNSIT, Bangalore on 30th June 2022.

Appreciation

1. Mrs. Beena K appreciated as "**Best Supporting Co-Ordinator"** by **Prinston Smart Engineers** on Feb 2022.

Achievements by Students:

1. **Dhananjaya S and Gautham M**, won the second prize of the event **"Hackfest-2021"** organized by ATMECE, Mysuru on 2nd to 3rd July 2021.

2. **Pranav M. S, Raksha S, Samhitha, Suraj Jawoor** won 3rd Rank with a cash prize of Rs.1,00,000 of the event **"Aadhar Hackathon 2021"** organized by UIDAI from 28th to 31st October 2021.

Pranav M. S, Raksha S, Samhitha, Suraj Jawoor are felicitated by Shri Rajeev Chandrasekhar with awards and certificates during the valedictory session of the **Aadhar Hackathon 2021**.

3. **Chaitanya Shivaraju** has got Certificate of Excellence at ECELL Ambassador Program in Udgam IIT, Guwahati on 14th January 2022.

4. **Mythreyi U** has got Certificate of Excellence at ECELL Ambassador Program in Udgam IIT, Guwahati on 14th January 2022.

5. **N P Shashanka Rao** has got Certificate of Excellence at ECELL Ambassador Program in Udgam IIT, Guwahati on 14th January 2022.

6. **Shrividya N** awarded as Rising Start at BTC Boston Technology on 19th January2022.

7. **Keerthan S Gowda** Student Coordinator participated at FKCCI, Bangalore on 18th February 2022.

8. Lisha C, Winner of the event **"KSGI Parisara 5K Marathon"** organized by KSIT .Dept OF ECE, Benguluru on 4th June 2022.

9. **Trupthi.G.B, Sushmitha K, Lisha C, Nagashree A, Harshitha P, Likitha N, Lisha C** has secured Winners up place in Inter Collegiate Bangalore South Zone Throball(w) from Visvesvaraya Technological University held on 6th and 7th June 2022.

10. **Ajay, Darshan, Kushal K, Prajwal, Keerthi, Dhanush, Raksha, Samhitha, Pavithra, Shirisha, Ashika, Lisha** secure second place in Fashion Show, Pranathi 2K22 organized by Jyothy Institute of Technology on 16 June 2022.

11. **Ajay, Darshan, Kushal K, Prajwal, Keerthi, Dhanush, Raksha, Samhitha, Pavithra, Shirisha, Ashika, Lisha** secure First place in Fashion Show organized by JSS on June 2022.

12. **Ajay, Darshan, Kushal K, Prajwal, Keerthi, Dhanush, Raksha, Samhitha, Pavithra, Shirisha, Ashika, Lisha** secured Second place at GAT on June 2022.

13. **Lisha C** secured second place in SHOTPUT at Annual Athletic Meet, KSIT on June 2022.

14. **Naveen K M** is a winner of AICTE-SPICES, mini project exhibition at KSIT, Dept of CSE on June 2022.

15. **R V Yashvanth** is a winner of AICTE-SPICES, mini project exhibition at KSIT, Dept of CSE on June 2022.

Patent Publications by Faculty:

1. **Mr. Kushal Kumar B. N**, Title of Invention **"Learning Long Term Model for Prediction of Air Pollution Causing Pollutants for Bengaluru Environment"** Intellectual Property India, applied on 14th July 2021 and granted with CBR no 25701.

2. **Dr. Deepa S. R and Dr.Vaneeta M**, Title of Invention **"Ceiling Fan"** design patent, Patent Office Government of India, applied on 26th October 2021 and granted with Design No 352085-001.

3. **Mrs. GEETHA R,** Title of Invention "**Text Summarization and Dimensionality Reduction Using Learning Approach**" on 4th March 2022 with IPR No. 202221011723.

4. **Mr. Harshavardhan J R,** Title of Invention "**IOT Based Low Cost Effective Public Transport Crowd Monitoring System**" on 25th May 2022 with IPR No. 202211030059.

5. **Mr. Kushal Kumar B N and Mr. Harshavardhan J R,** Title of Invention "**Machine Learning Based Approach to Detect the Quality of Styripped Watermelon**" on 4th June 2022 with IPR No. 202241032097.

Funded projects:

1. The project titled **"Voice Based E-Prescription"** carried out by final year students **Ms. Krithika Jagannath (1KS17CS036), Mr. Abhishek Gowda M V (1KS17CS002), Ms. Meghana G**

(1KS17CS042) and Mr. Ashish Amar (1KS17CS013) under the guidance of **Dr. Rekha B Venkatapur** was selected for **VTU Financial Assistance** for Innovative Projects of Final Year UG Students-2021 and received Financial Assistance of **Rs. 5000**.

2. The project titled **"Be My Book -You hear what you choose to read"** carried out by Final year students **Ms. Amogha Manjunatha K (1KS17CS006, Ms. Sakshi Kumari (1KS17CS071), Ms. Srikala K M (1KS17CS083) and Ms. Swati Pai (1KS17CS089)** under the guidance of **Dr. Ram P Rustagi** was selected for **VTU Financial Assistance** for Innovative Projects of Final Year UG Students-2021 and received Financial Assistance of **Rs. 5000.**

3. The project titled **"Reading physical book for visually impaired person through voice over navigation system"**, carried out by Final year students **Ms. Amogha Manjunatha K (1KS17CS006, Ms. Sakshi Kumari (1KS17CS071), Ms. Srikala K M (1KS17CS083) and Ms. Swati Pai (1KS17CS089)** under the guidance of Dr. Ram P Rustagi was selected for **Karnataka State Council for Science and Technology**: 44th Series of Student Project Programme-2021 and received grant of **Rs. 5000.**

4. The project title **"Spice Project"** by Dr. Deepa S R, Mrs. Beena K received **Rs. 100000** financial assistance from **AICTE-SPICES** on May 2022.

5. The project titled **"Tamper-Proof Air Quality Management System"** carried out by Final Year students **Ms. Ashwini J, Ms. Kruthika, Mr. Vasishta, Ms. Nikitha M, Ms. Srividya H.R** under the guidance of **Dr. Vaneeta M** was selected for **Karnataka State Council for Science and Technology** May 2022 and received grant of **Rs.3500.**

Recognition:

1. **Dr. Rekha B Venkatapur** appointed as a member of "The Board of Studies in Computer Science and Engineering (CSE/ISE)"of Visvesvaraya Technological University, Belagavi for the duration 2019-2022 and prepared **CSE**, **AI-DS UG syllabus** and submitted to BoS chairman. She also completed VTU Ph. D Course work syllabus setting for Computer Science and Engineering - group (1-6) for the academic year 2020-2023.

2. **Dr. Ram P Rustagi** appointed as a "Chairman/Member of Constitution of Board of Examiners" of Visvesvaraya Technological University, Belagavi for the duration 2020-2021.

3. **Dr. Ram P Rustagi**, Professor and KRP, KSGI is a Chief Technical Advisor/Consultant. He provides Technical Guidance in Engineering Design and Development for Funding Agency - Personal Air Quality Systems (PAQS) Pvt Ltd, for the duration of year 2021-2022 .

4. **Dr. Rekha B Venkatapur** is Doctoral Committee Member of VTU research centers such as BMS College of Engineering research center, Dayananda Sagar College of Engineering, East West Institute of Technology, JSS Academy of Technical Education, K S School of Engineering and Management, K S Institute of Technology, Bangalore.

100% Result with Subject:

1. Mr. Harshavardhan J R — System Modelling and Simulation(17CS834)
2. Mr. Kumar K — System Modelling and Simulation(17CS834)
3. Mr Krishna Gudi(V B) — Management and Entrepreneurship for IT Industry(18CS51)
4. Dr. Vaneeta M — Big Data Analytics(18CS72)
5. Mr. Parashuram A K — Energy and Environment(18ME751)

ELECTRONICS AND COMMUNICATION ENGINEERING:

Events conducted by the Department:

1. The Department of Electronics and Communication Engineering organized a Webinar on **"Recent Development in AI,ML & DL Implementations for Smart Intelligent Systems"**by Dr.Pavithra.G ,Associate Professor,Dept.of ECE,Dayanandasagar College of Engineering,Bangalore in association with IETE on 2nd July 2021.
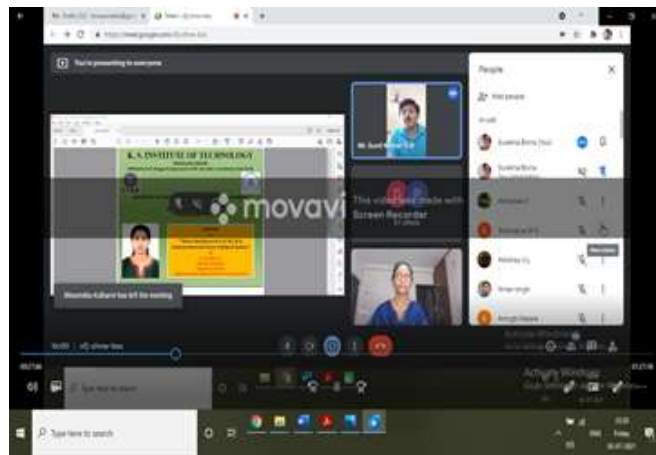
2. The Department of Electronics and Communication Engineering organized **"Digital Signal Processing Applications Using MATLAB"** by Mr.Rakshith BS-Senior Application Engineer CoreEl in association with IEEE-KSIT on 5th July 2021.

3. The Department of Electronics and Communication Engineering organized a Guest Lecture on **"Health and Stress Management for Students during covid-19"** by Mrs. Shanmugapriya V S, Nutritionist,Counselling trainer in association with ASH committee/IEEE-WIE on 6th July 2021.

4. The Department of Electronics and Communication Engineering organized a Workshop on "**Programming Logic"** by Dr.P.Joy Prabhakaran,Professor,Dept.of ECE,KSIT in association with IEEE-KSIT from 16th July to 17th July 2021.

5. The Department of Electronics and Communication Engineering organized a Guest Lecture on **"Writing research Proposals for funding"** by Dr. Swamy, Professor, Department of IEM JSS Academy of Technical Education, Bangalore on 27th August 2021.

6. The Department of Electronics and Communication Engineering organized a Webinar on **"Basic Latex:Documentation Software"** by Dr. V N ManjunathAradhya, Head Dept. of Computer Applications, J.S.S. Science and Technology University, Mysuru on 27th September 2021.
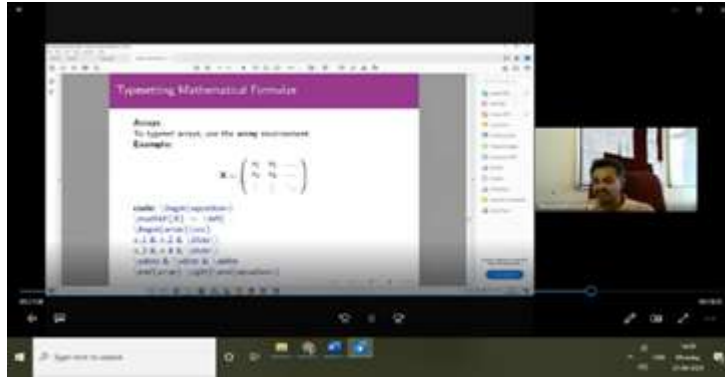
7. The Department of Electronics and Communication Engineering organized a Guest Lecture on **"Indian Woman Scientist's Association (IWSA): Funding Opportunities"** by Dr. Savithri Bhat Convener, IWSA, Bangalore Branch on 12th November 2021.

8. The Department of Electronics and Communication Engineering organized FDP on **"Patent Drafting: Basics"** by Dr. Rekha N, Associate Professor, Dept. of ECE, K. S. Institute of Technology, Bangalore on 17th November 2021.

9. The Department of Electronics and Communication Engineering organized **"IEEE Day Celebration"** IEEE-KSIT,IEEE-WIE,IEEE-SPS KSIT on 5th october 2021.

10. The Department of Electronics and Communication Engineering organized **"IEEE Day Quest"** in association with IEEE-KSIT,IEEE-WIE,IEEE-SPS KSIT on 23rd October 2021.

11. The Department of Electronics and Communication Engineering organized **" Valedictory function"** of IEEE KSIT on 23rd October 2021.

12. The Department of Electronics and Communication Engineering organized Talk on

"Careers Space and Technology" by Sri V. Ramachandra and Sri Akhil Mohan was held on 29th November 2021.

13. The Department of Electronics and Communication Engineering organized **"EUPHORIA"** by IEEE-KSIT on 11th Feb 2022.

14. The Department of Electronics and Communication Engineering organized a talk on**"Power of well being and Mindfullness"** by Dr.Priyanga, wellness Advisor, Asst.Prof. RVITM,Bangalore in association with ASH ,IEEE-WIE on 11th March 2022.

15. The Department of Electronics and Communication Engineering organized an event on **"Women's Day Celebrations 2022"**in association with IEEE-KSIT on 11th March 2022.

16. The Department of Electronics and Communication Engineering organized FDP on **"OUTCOME BASED Education"** by Dr.S.Bhaskar, Head Office of PG Studies, Kumaraguru College of Engineering and technology,Coimbatore from 17th-19th March 2022.

17. The Department of Electronics and Communication Engineering organized **"INNOVACEEA 5.0"** in association with IEEE-KSIT on 22nd April 2022.

18. The Department of Electronics and Communication Engineering organized Three days STP on   " CAPACITY BUILDING" by Dr. V Ragh, Principal, Silicon city College of Management & Commerce, Bengaluru from 4th-6th April 2022.

19. The Department of Electronics and Communication Engineering organized Guest Lecture on "TECHNOLOGY AND ETHICS" by Dr. Srinivas Padmanabhuni, CTO and Co-Founder, TestAIng.com in association with IETE & Research Forum on 30th April 2022.

20. The Department of Electronics and Communication Engineering organized a Guest Lecture on "Basics of Writing Research Article" by Dr.Surekha Borra,Professor,ECE Dept. ,KSIT in association with Antariksh Club of KSIT,IETE and Research Forum on 18th May 2022.

21. The Department of Electronics and Communication Engineering organized **"Project Exhibition-2022"**in association with IEEE-KSIT, IETE, IEI,ISTE on 25th May 2022.

22. The Department of Electronics and Communication Engineering organized **"Mini Project Exhibition"** in association with IEEE-KSIT,ISTE,IEI on 25th May2022 .

23. The Department of Electronics and Communication Engineering organized **"5K Marathon-KSGI Parisara "** in association with IEEE-KSIT on 4th June 2022.

24. The Department of Electronics and Communication Engineering organized **"World Environmental Day "**in associatin with IEEE-KSIT & NSS on 6th June 2022 .

25. The Department of Electronics and Communication Engineering organized **"National Conference on Recent Innovations in Engineering-NCRIE-2022"** in association with IEEE-KSIT,IETE,IEI,ISTE on 23rd and 24th June 2022.

Events Conducted by the Faculty-TCE:

1. A Webinar on **"Opportunities and Challenges in 6G Wireless Technology"** by Dr. Sridhar Iyer, Member IEEE and InSc, Associate Professor, Dept of ECE, S. G. Balekundri Institute of Technology, Belagavi, was organized on 12th July 2021.

2. A Webinar on **"Machine Learning using Python"** by Dr. Mahantesh K, Associate Professor, Dept of ECE, SJBIT, Bengalore , was organized on 19th July 2021.
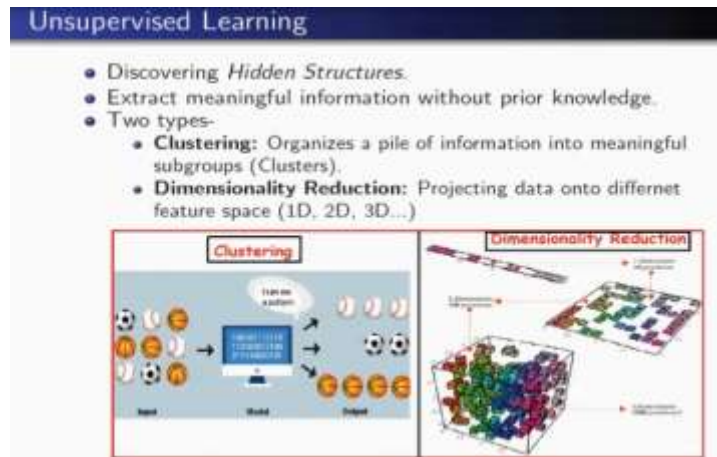
3. A Webinar on "**Wireless Communication: A Practical Approach"** by Mr. Senthil Kumar S, Associate Professor , GRT Institute of Engineering and Technology, Tiruttani, Tamil Nadu, was organized on 09[th]to 10th October 2021.
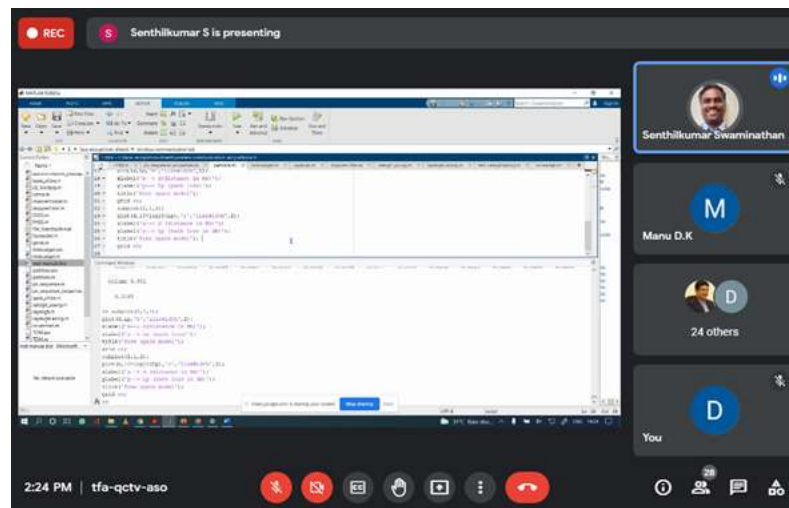
4. A Workshop on **"Internet of Things (IoT)"** by Mr Somashekar Y, Member Advanced Micro devices Mr. Rajesh Sudi Assistant Professor Dept. of ECE JIT Bengalore Mr. Ravishankar Holla Assistant Professor Dept. of ECE, RVCE Bengalore, was organized on 26th to 28th Nov 2021.

Events Attended by Faculty:

1. **Mrs.Jayasudha B.S.K,** Assistant Professor attended 5 days FDP on "**Sensors and their applications**"organized by Malnad College of Engineering from 13th to 17th July 2021.

2. **Mr.Sampath Kumar,** Assistant Professor attended FDP on "**Pedagogy of teaching and tools of e-content development for effective learning**" organized by IQAC from 5th to 14th July 2021.

3. **Mr.Sampath Kumar,** Assistant Professor attended FDP on "**Role of mathematics in latest engineering trends**"organized by Lords Institute of Engineering Technologies from 4th to10[th]June 2021 at.

4. **Mr.Sampath Kumar,** Assistant Professor attended FDP on "**Foregrounding the spectrum of character building in modern human life**" organized by Balaji Institute of Technology and Sciencefrom 25[th]Juneto3[rd] July 2021.

5. **Dr. P. N. Sudha,** Professor and Head attended FDP on "**Business Plan Development for Early stage of startup**"organized by Department of EEE,CMR Institute of Technology from 23rd August to 9th September 2021.

6. **Dr. Surekha Borra,** Professor, attended ATAL FDP on **"FPGA based Deep learning applications in signal processing**"organized by KLE Technological University, Hubli from 5th to 9th July 2021.

7. **Dr. Surekha Borra,** Professor, attended ATAL FDP on "**Quantum computing Algorithms and Machine Learning**" organized by R.V.College of Engineering, Bengaluru from 2nd to 6th August 2021.

8. **Dr. SurekhaBorra,** Professor, attended ATAL FDP on "**Machine Learning and Optimization Techniques: Applications to Financial Markets**" organized by School of Basic Science, IIT Mandi from 12th to 16th July 2021

9. **Mr. Dileep J** attended One-week FDP on **"Machine Learning"** organized by organized by E & ICT Academy, IIT Kanpur from 19th July 2021 to 24th July 2021.

10. **Dr. Chanda V. Reddy**, Professor, attended FDP on " **Revolution on 5 G and Beyond with industrial Instrumentation approach, Machine learning**" organized by Dayananda Sagar College of Engineering from 13th September to 17th September 2021.

11. **Dr. SurekhaBorra**, Professor, attended ATAL FDP on "**Telemedicine**"organized by National institute of Technology, Jamshedpur from 9th to 13th August 2021.

12. **Dr. Dinesh Kumar D S** , Associate Professor , attended FDP on "**Recent Advances in RF and Wireless communication Recent Advances in RF and Wireless communication**" organized by MSR Institute of Technology Bangalore from 2nd August to 7th August 2021.

13. **Dr. Dinesh Kumar D S** , Associate Professor , attended FDP on "**Recent Trends in microwave and antenna technologies**" organized by East point College of Engineering Bangalore from 15th November to 19th November 2021.

14. **Dr. Rekha N,** Associate Professor,attended FDP on "**Fundamentals and applications of Digital Image Processing** " organized by SJCIT,Chikkaballapur from 27th to29th September 2021.

15. **Dr. Rekha N,** Associate Professor,attended FDP on "**Wireless Communication Practical Approach** " organized by KSIT , Bangalore from 9th to10th October 2021.

16. **Dr. Devika B** ,Associate Professor, attended FDP on "**Wireless Communication Practical Approach** " organized by KSIT , Bangalore from 9th to10th October 2021.

17. **Mrs. Ramya K R,** Associate professor attended FDP on "**Recent Advancement in Electric Vehicle Technology**" organized by Department of Electrical and Electronics Engineering, BNMIT, Bengaluru from 18th - 23rd October 2021.

18. **Mrs.Sangeetha V** ,Assistant Professor,attended FDP on "**Wireless Communication Practical Approach** " organized by KSIT , Bangalore from 9th to10th October 2021.

19. **Mrs. Bhargavi Ananth** , Assistant Professor , attended FDP on "**Research trends in Bio Medical Application**" organized by BNMIT Bangalore from 22nd October to 26th October 2021.

20. **Mr.Dileep Kumar J** , Assistant Professor , attended FDP on "**Recent Advances in RF and Wireless communication Recent Advances in RF and Wireless communication**" organized by MSR Institute of Technology Bangalore from 2nd August to 7th August 2021.

21. **Mr.Satish Kumar B** , Assistant Professor , attended FDP on "**Revolution on 5 G and Beyond with industrial Instrumentation approach, Machine learning**" organized by

Dayanand College of Engineering Bangalore from 13th September to 17th September 2021.

22. **Dr. P N Sudha**, Professor and HOD has Participated One Week AICTE – VTU Joint Teachers Training Programme on "**An Overview of Teaching Techniques in Data Science and Analytics**" Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur from 25th & 29th April 2022.

23. **Dr. P N Sudha**, Professor and HOD , Participated in a 3 days faculty development program on "**Outcome Based Education**" organized byK S Institute of Technology from 17th March to 19th March 2022.

24. **Dr. Surekha Borra,** Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

25. **Dr. Sangappa S B**, Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

26. **Dr. Surekha Borra**, Professor,attended FDP on "**Cartography**" organized by ESRI from February to March 2022

27. **Dr. Chanda V. Reddy**, Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

28. **Dr. Sudarshan B**, Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

29. **Dr. Rekha N**, Associate Professor , attended FDP on "**Inculcating Universal Human Values in Technical Education**"organized by All India Council for Technical Education (AICTE) from 28th March to1st April 2022 .

30. **Dr. Rekha N,** Associate Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

31. **Dr. Rekha N** , Associate Professor attended FDP on "**Applications of Artificial Intelligence in Communication and Signal Processing**" Organized by E&ICT Academy, NIT Warangal and Department of ECE, SJB Institute of Technology, Bengaluru from 14th to 23rd March 2022

32. **Dr. Dinesh Kumar D S,** Associate Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

33. **Mr. Santhosh Kumar B R**, Associate Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

34. **Dr. Devika B,** Associate Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

35. **Dr. Devika B,** Associate Professor, attended FDP on **"ICT Tools for Effective Teaching and Learning Process**" organized by RV Institute of Technology and Management, Bangalore from 28th March 2022 to 1st April 2022 .

36. **Ms. Jayasudha B.S.K**, Assistant Professor, attended FDP on "**VGST sponsored Recent Trends in Computational Intelligence and Analytics**" organized by R V College of Engineering, Bangalore from 17th January to 20th January 2022.

37. **Mr. Sampath Kumar S,** Assistant Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

38. **Mrs. Ramya K R,** Associate professor, attended FDP on "**Advanced Technologies in Electrical and Electronic Systems**" organized by KLS Gogte Institute of Technology from 3rd January to 7th January 2022.

39. **Mrs. Vishalini Diwakar,** Assistant Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

40. **Mr. Sunil Kumar G R,** Assistant Professor,attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

41. **Mrs. Sangeetha V**, Assistant Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

42. **Mr. Praveen A,** Assistant Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

43. **Mr. Christo Jain,** Assistant Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

44. **Mr. Saleem Tevarmani,** Assistant Professor,attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

45. **Mrs. Pragati P,** Assistant Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

46. **Mrs. Bhargavi Ananth,** Assistant Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

47. **Mrs. Bhargavi Ananth,** Assistant professor, completed a course on "**Python for Data Science, AI & Development**"by Coursera from April to May 2022 .

48. **Ms. Pooja S,** Assistant Professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

49. **Mr. Dileep J,** Assistant professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

50. **Mr. Satish Kumar B,** Assistant professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

51. **Ms. Keerthana A,** Assistant professor, attended FDP on "**Outcome Based Education**" organized by K S Institute of Technology from 17th March to 19th March 2022.

Publications in International Journals:

1. **Dr. P N Sudha** "**Automatic Plant Watering System Using Arduino**" International Journal of Innovative Research in Technology, Vol,8, No. 3, 2021, ISSN: 2349-6002.

2. **Dr. P N Sudha** " **The design, modeling, construction and implementation of Self-balancing robot**" International Advanced Research Journal in Science, Engineering and Technology, Vol,8, No. 6, 2021, ISSN: 2393-8021

3. **Dr. P N Sudha** "**Hybrid Temperature Sensing and Monitoring System With Built In Sanitizer**" International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-07, Issue-04, JULY 2021.

4. **Dr. Surekha Borra**, "**Digital Video Watermarking Tools an Overview**", International Journal of Information and Computer Security, Vol. 16, No.1,2, pp.1-19, 2021.

5. **Dr. Surekha Borra**, "**Hybrid, Blind and Robust Image Watermarking: RDWT – NSCT based Secure Approach for Telemedicine Applications**", Multimedia Tools and Applications, Vol.80, pp. 27593–27613, 2021.

6. **Dr. Surekha Borra**, "**Fragile Watermarking Framework for Tamper Detection of Color Biometric Images**", International Journal of Digital Crime and Forensics, Vol.13, No. 2, pp. 100518-115538, 2021.

7. **Dr. Surekha Borra**, "**Difference Expansion Based Reversible Watermarking Algorithms for Copyright Protection of Images: State-of-The-Art and Challenges**", International Journal of Speech Technology, 2021, pp.1-30.

8. **Dr. Surekha Borra**, "**A Survey on Prevention Techniques for Camcorder Video Piracy in Movie Theatres**", Recent Patents on Engineering, Vol.15, No.2,pp.207-217, 2021.

9. **Dr. Surekha Borra**, "**Detection and Classification of Leukocytes in Blood Smear Images: State-of-the-Art and Challenges**" International Journal of Ambient Computing and Intelligence, Vol. 12, No.2, pp. 030720-041648, 2021.

10. **Dr. Chanda V. Reddy**, "**Detection of Real And Fake Image Using Deep Learning Algorithm" International Research Journal of Modernization in Engineering Technology and Science,** Volume:03, Issue:07, July-2021, Impact Factor- 5.354, Page:367 – 371.

11. **Dr. Chanda V. Reddy "Agro Bot"** International Advanced Research Journal in Science, Engineering and Technology, Volume 8, Issue 8, August 2021, Impact Factor 6.612, Indexed in Microsoft Academic, Google Scholar, Index Copernicus, NAAS Accredited Science Journal Thomson Reuters ID I-8645-2017, DOI: 10.17148/IARJSET.2021.8879.

12. **Dr. P.N Sudha,** Charan G, Ganesh P, Dheeraj MS, "**Survey on Real-Time Fruit Detection and Classification using Image Processing and Convolution Neural Network**", International Journal of Innovation Research in Technology, Vol.8, No.11, pp. 617-622, 2022. [ISSN:2349-6002]

13. **Dr. P N Sudha** , Suraj V Ghorpade , Thanushree D , Vaishnavi G , Vrindha Sham Bhatt "**A Smart Wheelchair for Aged People with Health Monitoring System**" International

Journal Of Innovative Research In Technology April 2022| IJIRT | Volume 6 Issue 11 | ISSN: 2349-6002

14. **Dr. Surekha Borra, Sunil Kumar G. R.,** N. Vishal Gowtham, Ritu Patil, "**AlexNet Based Pirate Detection System**", Springer Nature Computer Science, Vol.3, No.2, Article No. 108, pp.1-8, 2022. [ISSN: 2661-8907]

15. **Dr. Chanda V. Reddy** "**Wildlife Animal Tracking and Monitoring System**" International Advanced Research Journal in Science, Engineering and Technology Vol. 9, Issue 6, June 2022, Impact Factor 7.105, ISO3297:2007 Certified   DOI: 10.17148/IARJSET.2022.96148

16. **Dr. Chanda V. Reddy** "**IOT BASED SMART MIRROR**" International Advanced Research Journal in Science, Engineering and Technology Vol. 9, Issue 5, June 2022, Impact Factor 7.105, ISO3297:2007 Certified   Certified   DOI: 10.17148/IARJSET.2022.9588

17. **Dr. Rekha. N,** Adithi S, Mahanth Sai M, Dhrithirhuth Rajanna, K Rishika Ravi, "**Crowd Management Framework for Departure Control in Bus Transport Service using Image Processing**", International Journal of Innovation Research in Technology, Vol.8, No.11, pp.821-827, 2022.[ISSN:2349-6002]

18. **Mr. Santhosh Kumar B R,** Janhavi K. P, Monisha B R, Niharika S A, Shreya V Dev, "**Survey on Orador Smart Community**", International Advanced Research Journal in Science, Engineering and Technology, Vol. 9, No. 4, pp. 89-91, 2022. [ISSN :2393-8021] DOI: 10. 17148/IARJSET.2022.9413

19. **Dr. Devika B,** Aishwarya Bandigani, Nirosha G J, Nishanth J Rao, Pavan Kumar P, "**Study and Literature Survey of Evidence Collection System in Car by Embedded System**", International Advanced Research Journal in Science, Engineering and Technology, Vol. 9, No. 4, pp. 104-108, 2022. [ISSN :2393-8021] DOI: 10. 17148/IARJSET.2022.9417

20. **Mrs.Ramya K R,** Jhanavi V, Jahnavi A P, Ayeesha Ruman " **A Survey on Robotic Systems for Military Applications**" International Advanced Research Journal in Science, Engineering and Technology, Vol. 9, Issue 4, pp. 2022. [ISSN :2394-1588] DOI: 10. 17148/IARJSET.2022.9412

21. **Mrs. Jayasudha B S K,** N Bhoomika Chowdary, Lavanya M, Darshan S, Deepthi Andani, "**A Literature survey on Voice Assistance**", International Journal for Research in Applied Science and Engineering Technology, Vol.-10, No.4, pp. 2251-2254,2022[ISSN: 2321-9653]

22. **Mrs. Jayasudha B S K,** Jishnu S, Nihitha Yadav. M, Mohammed Faizan Shafi, Divakar Babu. Y "**Survey on Face Recognition for Automation of Door Lock System**" International Journal forResearch in Applied Science and Engineering Technology, Vol.-10, No. 4, pp.2577-2580, 2022. [ISSN:2321-9653]

23. **Mr. Sampath Kumar S,** Chithritha G R, Dhanushree C, Harshitha S, Meghana B S, "**Automated Crowd Management and Energy Conservation System in Metro Using IOT**", International Advanced Research Journal in Science, Engineering and Technology, Vol. 9, No. 4, pp.73-79, 2022. [ISSN:2393-8021] DOI: 10. 17148/IARJSET.2022.9410

24. **Mr. Sampath Kumar S,** Vidyasagar R Hiremath, Venkatesh M N, "**Literature Survey of AI-Based Home Automation**", International Advanced Research Journal in science, Engineering and Technology, Vol. 9, No.3, pp. 140-143,2022. [ISSN:2393-8021] DOI: 10. 17148/IARJSET.2022.9324

25. **Mr. Sunil Kumar G. R.,** S Tushar Harinath, Raghu B T, Raghavendra K P, Purushotham V R, "**Electronic Shoes to Assist Visually Challenged**", International Journal of Creative Research Thoughts An International Open Access, Peer-reviewed, Referred Journal, Vol. 10, No. 4, 2022. [ISSN: 2320-2882]

26. **Mrs. Sangeetha V,** Megha R, Anagha S, Ananya Ananth, Ashritha S C, "**Survey on Sanitizing Drones**", International Journal of Computer Applications Technology and Research Vol. 11, No.5, pp. 165-169 2022[ISSN:-2319–8656] DOI:10.7753/IJCATR1105.1003

27. **Mrs. Sangeetha V,** R. Kishore, Dilip Kumar C N, Devaraj.M, "**Literature Survey on NFC and Coin based stationery vending machine**", International Advanced Research Journal in Science, Engineering and Technology, Vol. 9, No. 4, pp. 127-129, 2022. [ISSN:2393-8021] DOI: 10. 17148/IARJSET.2022.9421

28. **Mrs. Sangeetha V,** R. Kishore, Dilip Kumar C N, Devaraj.M, "**Literature Survey on NFC and Coin based stationery vending machine**", International Advanced Research

Journal in Science, Engineering and Technology, Vol. 9, No. 4, pp. 127-129, 2022. [ISSN:2393-8021] DOI: 10. 17148/IARJSET.2022.9421

29. **Mr. Praveen A,** Harsh Sharma Mehra, Raj Krishna, GJ Nithin, Dinesh Kumar Naik, "**Review on Intelligent Packaging Solution for Tamperproof Delivery"**, International Journal of Innovative Research in Technology, IJIRT, Vol.-8, No. 12, pp.12-19, 2022. [ISSN: 2349-6002]

30. **Mr. Saleem S Tevaramani,** Abhishek V, Akash R, Chinnapu Charan Teja Reddy, Manoj G S, "**Solar and Wind Powered UPS System**", International Journal of Innovative Research in Technology, Vol. 8, No. 11, pp.780-783, 2022. [ISSN: 2349-6002]

31. **Mr. Saleem S Tevaramani**, Akash C G, Vijaybabu K, Vinay S, Vivek Gowda J, "**Literature Survey on Smart Assistance for Visually Impaired People**", International Advanced Research Journal in science, Engineering and Technology, Vol. 9, No. 4, pp.122-126, 2022. [ISSN:2393-8021] DOI: 10. 17148/IARJSET.2022.9420

32. **Mr. Saleem S Tevaramani,** Ravi J, "**Image Steganography Performance Analysis using Discrete Wavelet Transform and Alpha Blending for Secure Communication**", Global Transitions Proceedings Vol. 3, No.1, pp. 208-214,2022 ·

33. **Aruna Rao B P,** Sujay R, Somashekar M, "**Literature Survey: Sign Language Translator**", International Journal of Innovation Research in Technology, Vol. 8, No. 12, pp. 8-11,2022[ISSN: 2349-6002]

34. **Mrs. Pooja S,** C A Sushma, N Naga Omkar, Shiva Shankar B, Rithvik P, "**Real-Time Traffic Monitoring**", International Journal of Computer Applications Technology and Research Volume 11–Issue 06, 175-178, 2022, ISSN: -2319–8656 DOI:10.7753/IJCATR1106.1001

35. **Mrs. Pooja S,** Parikshith S, P Sai Govardhan, Shreyas D R, Ram Bahadur Mahara, "**Survey on Smart Manhole Management System**", International Journal of Creative Research Thoughts an International Open Access, Peer-reviewed, Referred Journal, Vol. 10, No. 4, pp.81-83, 2022. [ISSN: 2320-2882]

36. **Mrs. Bhargavi Ananth,** Aishwarya. R, Supriya. S, Sushmitha. R, Vandana. K, "**Literature Survey on Attendance monitoring and access control system**",

International Advanced Research Journal in science, Engineering and Technology, Vol. 9, No. 4, pp.92-94, 2022. [ISSN:2393-8021] DOI: 10. 17148/IARJSET.2022.9414.

37. **Dileep J** published a paper titled **"Implementation of VHDL/FPGA to Realize Fingerprint Verification with Optimal Computation"** in International Journal of All Research Education & Scientific Methods, (IJARESM), ISSN No: 2455-6211", Impact Factor : 7.429, Volume 9, Issue 7, July 2021.

38. **Dileep J** published a paper titled **"Smart Waste Segregation using Arduino Uno"** in International Advanced Research Journal in Science, Engineering and Technology, Impact Factor-6.612, Volume 8, Issue 8, ISSN No. 2393-8021, August 2021.

International Conference Publications:

1. **Ms. Devika, Dr. P N Sudha** "**Chronological-Squirrel EarthWorm optimization for power optimization using topology management in MANET**" International conference on Distributed Computing and Optimization technique organized by department of Electronics & Communication Engg.& department of Electrical & Electronics Engg. SJBIT Bangalore during 25th & 26th June 2021

2. **Ms. Jayasudha , P N Sudha ,**" **Machine learning techniques for cardiovascular risk score -prediction**" IEEE MysuruCon 2021-The First Edition of the Flagship International Conference Series of IEEE Mysore Subsection in association with IEEE Bangalore Section hosted by the house of Sri. M S Ramaiah, NAVKIS College of Engineering, Hassan during 24th & 25th October 2021.

3. **Dr. Surekha Borra**, "**A Hybrid Reversible Image Watermarking Technique based on Fractal Encryption and Grey Wolf Optimization**", 2021 IEEE Mysore Sub Section International Conference (MysuruCon), 2021, pp. 445-449.

4. **Dr. Surekha Borra**, "**Evaluation of Machine Learning Models for Real-Time Sign Recognition**", 2021 IEEE Mysore Sub Section International Conference (MysuruCon), 2021, pp. 238-243.

5. **Dr. Surekha Borra**, "**Real-Time Face Detection and Recognition on Raspberry Pi Using LBP and Deep learning**", International Conference on Data Science, Machine Learning and Artificial Intelligence (DSMLAI), organized by Faculty of Computing and

Informatics, Namibia University of Science and Technology (NUST), Windhoek, NAMIBIA, 9th – 12th August 2021

6. **Dr. Surekha Borra**, Sunil Kumar G R, "**Real-Time Piracy Detection based on Thermogram Analysis and Machine Learning Techniques**", Fourth International Conference on Computational Intelligence in Communications and Business Analytics (CICBA-2022), Assam University, Silchar, Assam. [In Press].

Achievements by Faculty:

1. **Dr. P N Sudha** is recognized as Reviewer for IEEE MYSURUCON 2021-The First Edition of the Flagship International Conference Series of IEEE Mysore Sub Section in association with IEEE Bangalore Section at NAVKIS College of Engineering, Hassan on 24th & 25th October 2021.

2. **Dr. P N Sudha** is recognized Doctoral Committee member in University of Kerala, Thiruvananthapuram, Kerala

3. **Dr. P N Sudha** is selected as Member of 'Editorial Board' of 'Blue Eyes Intelligence Engineering and Sciences Publication' and it's journal(s) for year 2020-21.

4. **Dr. P N Sudha** is invited as Reviewer for IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC-2021) to be held on 03-04 December 2021 at Sri Siddhartha Institute of Technology, Tumakuru, Karnataka - 572105, India.

5. **Dr. Surekha Borra**, Professor is recognized as a reviewer for the Springer Nature International Journal "Quality & Quantity (QUQU)" on 3rd June 2021.

6. **Dr. Surekha Borra**, Professoris recognized as a reviewer for theInternational Conference on Mobile Networks and Wireless Communications (ICMNWC-2021), organized by Sri Siddhartha Institute of Technology, Tumkur, Bangalore, during 3rd-4th Dec 2021.

7. **Dr. Surekha Borra**, Professor is recognized as a reviewer for theThird IEEE International Conference on Circuits, Controls and Communications (CCUBE-21), organized by RNS Institute of Technology, Bengaluru, during 23rd -24th December 2021.

8. **Dr. Surekha Borra**,Professor is recognized as a reviewer for Fourth IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization

Techniques (ICEECCOT-2021), organized by GSSS Institute of Engineering and Technology for Women, Mysore, India, during 10th-11th December 2021.

9. **Dr. Surekha Borra**, Professor is recognized as a reviewer for IEEE MYSURUCON-2021, organized by Navkis College of Engineering, Hassan during 24th-25th October 2021,

10. **Dr. Surekha Borra**, Professor is recognized as a reviewer for 7th IEEE International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT 2021, organized by IEEE Bangalore Section during 9th-11th July 2021.

11. **Dr. Sangappa S B**, Professor is recognized as Board of Examiner member to scrutinize the question paper during 19th - 20th July 2021 at VTU, Belagavi.

12. **Ms. Jayasudha BSK**, Assistant Professor was invited as an Evaluation Expert on Symposium cum Project Exhibition on Recent Advances in Engineering Science on 19th July 2021 at SJCIT, Chickballapur.

13. **Ms. Jayasudha BSK**, Assistant Professor was invited as a reviewer for IEEE CONECCT conference during 9th-11th July 2021.

14. **Dr. Sudharsan B**, Professor is recognized as Board of Examiner member to scrutinize the question paper during 29th -30th October 2021 at VTU, Belagavi

15. **Dr. P N Sudha**, Professor and Head, Received Best Paper award for paper titled "Generation of Simple Symmetric Key Generation Scheme Based on Channel Reciprocity for Wireless Communication" in fourth International Virtual Conference on Advances in Computing and Information Technology -2022 held on 17th & 18th May 2022 organized by REVA University Bangalore Karnataka

16. **Dr. P N Sudha**, Professor and Head, recognised as Reviewer in the IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE-2022), organized by the Ballari Institute of Technology and Management, Ballari, India in association with IEEE Bangalore Section on 23rd-24th April, 2022.

17. **Dr. P N Sudha**, Professor and Head, Invited as Evaluator for 3 Days Geo Innovation Challenge Sponsored by DST at Jain University Bangalore organized on 17th May 2022 to 19th May 2022.

18. **Dr. P N Sudha**, Prof. & Head, Delivered talk on "Recent Trends in Wireless & Mobile Communication " on27th March 2022 at Dayananda Sagar University Bangalore

19. **Dr. P N Sudha** is recognized as Reviewer for IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE-2022), organized by the Ballari Institute of Technology and Management, Ballari, India in association with IEEE Bangalore Section and IEEE Information Society at Ballari Institute of Technology and Management, Ballari on 23rd April and 24th April 2022

20. **Dr. P N Sudha** is recognized as evaluator at 3 Days Geo Innovation Challenge at Jain University Bangalore on 17th May 2022

21. **Dr. B Surekha** , Professor is recognised as External subject expert for Doctoral Advisory Committee on 11th May 2022 held at JSS Academy Technical Education

22. **Dr. B Surekha**, Professor is recognised as Examiner for PhD Viva on 25th May 2022 held at JSS science and technology university

23. **Dr. B Surekha**, Professor, delivered a Lecture on Basics of writing research article on 18th May 2022 held at K S Institute of Technology

24. **Dr. B Surekha**, Professor Attended as External member in Board of Examiners meeting on 21st February 2022 held at Sri Jayachamarajendra College of Engg .

25. **Dr. B Surekha**, Professor, Delivered keynote address at International conference on contemporary researches in Engg, science, Management and Arts on 28th January 2022 at Tamil Nadu

26. **Dr. B Surekha**, Professor was invited as a Chief Guest for Womens day celebration at KSSEM. On 8th March 2022 at KS School of Engg. Management ·

27. **Dr. B Surekha**, Professor is recognised as a reviewer at International conference on distributed Computing and Electrical circuits and Electronics, conducted from 23rd April to 24th April 2022 at Ballari Institute of Technology, Ballari

28. **Dr. B Surekha**, Professor is recognised as reviewer at Elsevier Journal (Applied Soft computing) conducted on January 2022

29. **Dr. B Surekha**, Professor is recognised as Judge in 24hour state level Hackathon-Sentinel Hack 3.0 conducted from 20th June to 21st June 2022 by K S Institute of Technology

30. **Dr. B Surekha**, Professor was recognised as Session chair for National Conference conducted from 23rd June to 25th June 2022 by K S Institute of Technology

31. **Dr. Sangappa S B**, Professor Elected member for ISTE National Executive Council,

section chairman & section managing committees for the term 2020-2024 during 2020-2021 ISTE, DELHI.

32. **Dr. Chanda V Reddy**, Professor was recognised as Session chair for National Conference conducted from 23rd June to 25th June 2022 by K S Institute of Technology

33. **Dr. B. Sudarshan**, Professor was recognised as Session chair for National Conference conducted from 23rd June to 25th June 2022 by K S Institute of Technology

34. **Dr. Rekha N**, Associate Professor was recognised as Session chair for National Conference conducted from 23rd June to 25th June 2022 by K S Institute of Technology

35. **Dr. Dinesh Kumar D S**, Associate Professor was recognised as Session chair for National Conference conducted from 23rd June to 25th June 2022 by K S Institute of Technology

36. **Dr. Dinesh Kumar D S**, Associate Professor was recognised as Session chair for 2nd National Conference conducted on 13th June 2022 by East Point College of Engineering

37. **Mr. Santhosh Kumar B R**, Associate Professor was recognised as Session chair for National Conference conducted from 23rd June to 25th June 2022 by K S Institute of Technology

38. **Mr. Santhosh Kumar B R**, Associate Professor was recognised as Session chair for 8 th National Conference on convergence of science, Technology and Management conducted on 28th June 2022 by Dayananda Sagar Academy of Technology and Management, Bangalore

39. **Dr. Devika B**, Associate Professor was recognised as Session chair for National Conference conducted from 23rd June to 25th June 2022 by K S Institute of Technology

40. **Mrs. Jayasudha B S K**, Assistant Professor was recognised as Session chair for National Conference conducted from 23rd June to 25th June 2022 by K S Institute of Technology

41. **Dr Sangappa S B**, Professor received ISTE Best member award for National working committee of ISTE during 50th Annual convention on 5th October 2021 at Mumbai.

Achievements by Students :

1. **Ms. Lavanya M** participated and secured first place in IEEE workshop Project based competition at IEEEKLE ,Belagaum held on 10th July 2021.

2. **Ms. RumanaKhanum, Ms.Shriyukta Ram and Ms. Sridevi M R** participated and secured first place in Intercollegiate Project Competition at Dayananda Sagar Academy of Technology and Management,Belagaum held on 17th July 2021.

3. **Mr.Vadhiraj Ravi, Ms.Nisha Deepak and Ms.Priyanka S** participated and secured second place in Intercollegiate Project Competition at Dayananda Sagar Academy of Technology and Management,Belagaum held on 17th July 2021.

4. **Ms. Yashaswini N** participated as NSS Volunteer in the south zone pre Republic day Parade selection camp 2021 from 22nd - 31st October 2021

5. **Mr. Vishal Sanjay Raju** participated in all India Inter University Yoga tournament held at Kalinga Institute of Industrial Technology Bhubaneswar ,Orisha from 25th - 20th December 2021.

6. **Mr. Srinivasan M** has won First Place in the Cansat event conducted during the National Level Annual Technical Symposium Phase Shift 2021 held at BMSCE from 26th - 27th November 2021.

Recognition:

1. **Dr. Sangappa S B**, Professor Elected member for ISTE National Executive Council, section chairman & section managing committees for the term 2020-2024 during 2020-2021 ISTE, DELHI.

2. **Dr. Sangappa S B**, Professor is recognized as a Chief Guest for inauguration of ISTE Faculty and Student chapter on 31st July 2021 at Atria Institute of Technology, Bengaluru.

3. **Ms. Jayasudha B S K**, Assistant Professor attended IEEE Xtreme 14.0 programming competition Volunteered as Proctor on 24th October 2021, IEEE.

Resource Person:

1. **Dr. Sangappa S B**, Professor invited as Guest of Honour for AICTE-ISTE Induction/Refresher Programme on "Advanced Topics in Network Security" on 10th December 2021 at BIT ,Bengaluru.

2. **Mr. Dileep J**, Assistant Professor was invited as Guest Speaker on "IoT and its Applications" on 13th September 2021 at K S Polytechnic , Bengaluru

Patent Publication by Faculty:

1. **Dr.Chanda V Reddy, Dr. Devika B, Mrs.V.Sangeetha, , Mr.Praveen** Title of Invention **"Smart Helmet with Bike System for Safety Transportation"** design patent, Patent office Government of India, applied on 3rd June2021 and published on 11th June 2021 with IPR number 202141024734

2. **Dr. P N Sudha** Filed patent for **"A Plant Finder for Ayurvedic Botanists - A Blending Technology on India's Rich Ayurvedic Legacy (ANDROID AND IOS BASED)"** and the application number for the patent application is 202141016624 and applied on 4th Sep 2021.

3. **Dr. Dinesh Kumar D S, Mr. Satish Kumar B and Mr. Dileep J,** Title of invention **"AN ELECTRONIC VOTING MACHINE",** patent office Government of India applied on   and published on 1st October 2021 with IPR number 202141041370.

Funded Projects:

1. **Dr. Surekha Borra**, Professor Received research Grants of worth Rs 3 Lakhs under RGS/F Scheme on 11th February 2021 at VGST, Government of Karnataka, for implementation of project titled "Development of Bioinspired Algorithms for Real Time Piracy Detection Systems based on Thermogram Analysis".

2. **Ms. Sangeetha V** ,Assistant Professor Received a fund of Rs.5000/- for the project entitled"Photovoltaic Dual Purpose Thermo Electric Refrigerator"by Karnataka State Council for Science and Technology KSCST SSP-44 Series during April 2021.

3. **Dr.P.N.Sudha**, Professor Received a fund of Rs.5000/- for the project entitled "Hybrid Temperature Sensing and Monitoring System With Built in Sanitizer" by VTU Financial Assistance for Innovative Projects of Final Year UG Students during September 2021.

4. **Ms. Jayasudha B S K** , Assistant Professor Received a fund of Rs.5000/- for the project entitled "Smart Heart Health Predictor Powered by ML" by VTU Financial Assistance for Innovative Projects of Final Year UG Students during September 2021

5. **Dr. Surekha Borra** ,Professor ,Mr.Sunil Kumar GR ,Assistant Professor received research Grants of worth Rs. 1.5 Lakhs under VTU Research Grants Scheme -2021 for

implementation of project titled "Development of a Secure System for Intellectual Property Protection in Theaters".

6. **Mr. Satish Kumar B,** Assistant Professor Received a fund of Rs.5000/- for the project entitled "GSM based baby monitoring and automatic swing system" by VTU Financial Assistance for Innovative Projects of Final Year UG Students during September 2021.

7. **Mr. Dileep J**, Assistant Professor Received a fund of Rs.5000/- for the project entitled "Ingenious Helmet with bike system" by VTU Financial Assistance for Innovative Projects of Final Year UG Students during September 2021.

8. **Mr. Satish Kumar B,** Assistant Professor Received a fund of Rs.5000/- for the project entitled "GSM based baby monitoring and automatic swing system" by VTU Financial Assistance for Innovative Projects of Final Year UG Students during September 2021.

9. **Mr. Dileep J**, Assistant Professor Received a fund of Rs.5000/- for the project entitled "Ingenious Helmet with bike system" by VTU Financial Assistance for Innovative Projects of Final Year UG Students during September 2021.

10. **Mrs. Sangeetha V** ,Assistant Professor Received a fund of Rs.8000/- for the project entitled" Drone Sanitizer "by Karnataka State Council for Science and Technology KSCST SSP-45 Series during March 2022.

11. **Dr. Rekha N** ,Associate Professor Received a fund of Rs.7000/- for the project entitled"Crowd Management Framework for Departure Control in Bus Transport Service using Image Processing" by Karnataka State Council for Science and Technology KSCST SSP-45 Series during March 2022.

12. **Mr. Santhosh Kumar B R**, Assistant Professor Received a fund of Rs.7000/- for the project entitled "The ORADOR Smart Community" by Karnataka State Council for Science and Technology KSCST SSP-45 Series during March 2022.

13. **Mrs. Pooja S**,Assistant Professor Received a fund of Rs.7000/- for the project entitled "Smart Manhole Management System" by Karnataka State Council for Science and Technology KSCST SSP-45 Series during March 2022.

14. **Dr. CHANDA V REDDY** ,Professor Received a fund of Rs.6000/- for the project entitled "IOT BASED SMART MIRROR" by Karnataka State Council for Science and Technology KSCST SSP-45 Series during March 2022.

15. **Mr. Satish Kumar B,** Assistant Professor Received a fund of Rs.6000/- for the project entitled "Electric Vehicle Charging System" by Karnataka State Council for Science and Technology KSCST SSP-45 Series during March 2022.

100% Result with Subject:

1. Dr. P.N Sudha   Cryptography (C404/15EC744)
2. Mr. Saleem S Tevaramani   Satellite Communication (17EC755)
3. Mr. Praveen. A   IOT & Wireless Sensor Networks (17EC752)
4. Mr. Saleem S Tevaramani   Fiber Optics & Networks (C410/17EC82)
5. Dr. B Surekha   Network and Cyber Security (17EC835)
6. Ms. Pooja S   Radar Engineering (17EC833)
7. Ms. Pooja S   Wireless Cellular and LTE 4G Broadband (17EC81)
8. Dr. Dinesh Kumar D S   Fibre Optics and Networks (17EC82/15EC82)
9. Mrs. Sangeetha. V   Wireless and Cellular Communication (18EC81)
10. Mr. Saleem S Tevaramani   Radar Engineering (18EC823)
11. Mrs. Pooja S   Radar Engineering (17EC833/15EC833)
12. Mr. Satish Kumar B   Wireless Cellular and LTE 4G Broadband (17EC81/15EC81)

   13. Dr. Chanda V Reddy   - Microwave Theory & Antennas

                                        - IOT and Wireless Sensor Networks

13. Dr. Rekha N   - Machine learning

                                        -VERILOG HDL

14. Dr. Dinesh Kumar D S   -Multimedia Communication

                                        -Fiber Optics & Networks

15. Dr. Devika B   -AD Hoc Wireless Networks

                                        - Satellite Communication and Remote Sensing.

16. Mr. Satish kumar B   -Wireless Cellular and LTE 4G Broadband,

                                        -Technological Innovation Management & Entrepreneurship

17. Mr. Dileep .J   -CMOS VLSI Design.

MECHANICAL ENGINEERING:

Events conducted by the Department:

1. Mechanical department organized webinar on "**Design innovation for successful career in the field of Aviation"** using systems tool kit software on **7th July, 2021** for mechanical students. The webinar was informative and students have gained knowledge about tools used in aviation sector.

2. Department has organized webinar on **"Non-destructive Evaluation of Castings and to learn about the evolution in the Foundry Industry with respect to Non-Destructive Testing"in association with IIF, on 21st July 2021.** The speaker highlighted the need and importance of nondestructive testing in foundry sector.

3. Department organized **one day industrial visit f**or KSIT and KSP students on **8th September,** 2021 to **"walvoil" company** located in Bangalore. Students got good exposure of various hydraulic systems asthe company manufactures pumps, compressors, taps and valves,hydraulic power engines and motors, pumps for liquids fitted with measuring devices, including hand pumps and pumps designed for fitting to internal-combustion piston engines etc, air or vaccum pumps, air or other gas compressors, taps, cocks, valves and similar appliances for pipes, boilers shells, tanks, vats or the like including pressure reducing valves and thermostatically controlled valves.

Photograph ofStudentsalong with facultyinKSITcampus

4. Department organized **Engineers day on 15ᵗʰ September, 2021** as a mark of remembrance and tribute to Mokshagundam Visvesvaraya, who is considered as one of the greatest engineers in the country. Senior faculty highlighted the importance of discipline and dedication required to succeed in life.

5. Department organized webinar on **"Basic Grey Iron Metallurgy"** in association with the Institute of Indian Foundrymen (IIF)- Bangalore on **30ᵗʰ October, 2021**. Participants were teaching fraternity and industry working professionals. Speaker presented the importance of Cast iron in various engineering applications and also how metallurgical processes helps in enhancing properties of cast iron.
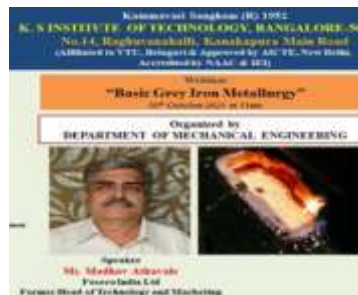
6. Depart organized Webinar on **"Introduction & Evolution of Industrial Robotics"**on **30ᵗʰ December, 2021**, the speaker of the session was MVA Raju Bahubalendrani, Assistant Professor, MED, NIT, Thiruchy. He highlighted the evolution and importance of industrial robots in today's modern manufacturing sector.
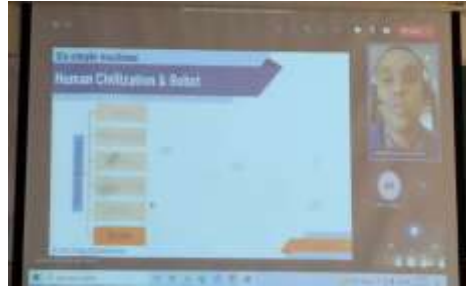
7. 3 Days **Staff training Programme for Capacity Building** in association with SAEINDIA, IEEE from 4th to 6th April 2022

8. **"National Conference on Recent Innovation in Engineering – 2022"** organized by Department of Mechanical Engineering, KSIT, Bengaluru during 23rd to 24th June 2022

9. **Project Exhibition** was organized by the Department of Mechanical Engineering, at KSIT, Bengaluru on 25th June 2022

Events attended by Faculty:

1. **Mr.Ranganath N** attended a Webinar on **"Prerequisites to be a Design Engineer"** organized by **SVCE**, Bengaluru, Bengaluru on 3rdJune, 2021.

2. **Mr.Ranganath N** attended a 5 days online FDP on **"Modern Trends in Engineering Technology"** 8th June, 2021 organized by **HKBK college of Engineering**, Bengaluru

3. **Mr.Manjunath B R** attended a Webinar on one day webinar on **"Introduction and application of solid-state welding Technique"** organized by **Brindavan College of Engineering,** Bengaluru on 11th June, 2021.

4. **Mr.Ranganath N** attended a Webinar on one day webinar on **"Introduction and application of solid-state welding Technique"** organized by **Brindavan College of Engineering**, Bengaluru on 11th June 2021

5. **Mr.Manjunath B R** attended a Webinar on **"Complexity and Excitement of Aerospace Control"** organized by **Dr. Ambedkar Institute of Technology**, Bengaluru on 18th June, 2021.

6. **Mr.Ranganath N** attended a Webinar on **"Complexity and Excitement of Aerospace Control"** organized by **Dr. Ambedkar Institute of Technology,** Bengaluru on 18th June 2021.

7. **Dr. Saleem Khan** attended **"Data Analysis and Artificial Intelligence for Mechanical Engineers"** Department of Mechanical Engineering **NitteMeenakshi Institute of Technology,** Bengaluru from 28th June to 2nd July 2021.

8. **Mr. M Umashankar** attended a webinar on **"Lost Foam Casting"** organized by Department of Mechanical Engineering, **JSS Academy of Technical Education**, Bengaluru in association with IIF Bangalore chapter on 10th July, 2021.

9. **Mr.Ranganath N** attended a National Seminar on **"Development of functionally graded material through Directional solidification"** organized by **RR Institute of Technology,** Bengaluru on 11th July,2021.

10. **Dr. Nirmala L** attended Five Day Online Faculty Development Program (FDP) on **"Recent Trends in Mechanical Engineering"** organized by LcfaiTech, **ICFAI University,** Jaipur in collaboration with IET (UK), Delhi Local Network from 20th to 24th July, 2021.

11. **Mr Harish U** attended Five Day Online Faculty Development Program (FDP) on **"Recent Trends in Mechanical Engineering"** organized by Department of Mechanical Engineering, K S Institute of Technology, Bengaluru organized by LcfaiTech, **ICFAI University, Jaipur** in collaboration with IET (UK), Delhi Local Network during July 20th to July 24th 2021.

12. **Mr.Parashuram A K** attended Two days Workshop on **"Recent Trends in production technology"** organized by **EWIT**, Bangalore from 27th to 28th July, 2021.

13. **Prof. RAJESH G L** of K.S. Institute of Technology, Bengaluru has participated in the webinar of **"Friction Welding and Allied Processes"** organized by the Departments of Mechanical & Automobile Engineering, Arasu Engineering College, Kumbakonam on 21st Jan 2022 through online pedagogy

14. **Prof TEJASWINI ML** of **K. S. Institute of Technology, Bengaluru** has participated in Six Days Faculty Development Program on **"Advancements In The Field Of Civil Engineering: Theory And Practice"** from 21st to 26th February 2022 at Pravara Rural Engineering College, Loni.

15. **Prof. RAJESH G L** of K S Institute of Technology, Bengaluru has participated in the Five Days (online) Faculty Development Programme on "**Recent Trends in Science &**

Engineering" held from 11th March to 16th March 2022 at Anand International College of Engineering Jaipur.

16. **Prof TEJASWINI ML** of **K. S. Institute of Technology, Bengaluru** has participated in Six Days Faculty Development Program on "**Advancement Of Technology In Civil Engineering"** from 28th – 5th March, 2022, at Anand International College of Engineering Jaipur.

17. **Prof**. **RAJESH G L** of K S Institute of Technology, Bengaluru has participated in IP Awareness/Training program under National Intellectual property awareness mission on 17th May, 2022

18. **Prof RAJESH GL** of **K. S. Institute of Technology, Bengaluru** has participated in SixDays Faculty Development Program on **"Envisioning Pathways In Thermal Sciences"**organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology – Ramapuram Campus in association with FEAST - ENGG ONLINE, Mumbai held between 23rd May 2022 to 28th May 2022.

Publications in International Journals:

1. **Prof Rajesh G L,** "Microstructure and tensile behaviour of B4C particles reinforced Al6061 matrix composites" Material Today: Proceedings (Science Direct) 2022, Volume 52, Part 3, Pages 1436-1441, https://doi.org/10.1016/j.matpr.2021.11.188

2. **Prof Tejaswini M L,** "Studies on hardened properties of concrete incorporated with copper slag" Material Today: Proceedings (Science Direct) Volume 60, Part 1, 2022, Pages 646-657, https://doi.org/10.1016/j.matpr.2022.02.264.

3. **Dr Saleem Khan,** "Influence of Hot Extrusion on Microstructure and slurry erosive behaviour of Al6061-Si3N4-Cf Hybrid Composite", SAE Technical Paper 2022-01-0049,8th March 2022, ISSN: 0148-7191 https://doi.org/10.4271/2022-01-0049 .

4. **Mr Parashuram A K,** "Experimental studies on Oscillating Heat pipe using conventional and Nano Fluids" International Journal of Scientific research in science, Engineering and Technology, March 15, 2022, Volume 9, Issue 9, Page No: 175-184

5. **Dr Nagaprasad K S,** "Effects of Injecting Bio – Diesel from the used cooking oil and Graphene Nano Platelets on Performance, Combustion and Emission Characteristics of Diesel" International Journal of Scientific Research and Technology, March 15,2022 Print ISSN: 2395 – 1990 | Online ISSN: 294 – 4099, Volume 9, Issue 9

Achievement by Faculty:

1. **Mr. Harish U** has completed Comprehensive viva voce in the year 2021 from JSSATE, Mech R & D, for the title **"Study of Experimental Investigations on Erosion Resistant Tungsten Carbide Alloy Coatings for Inconel prevailing Gas turbine blades"** under the guidance **of Dr. Mruthunjaya.M, Associate Professor. Mech. Department, JSSATE,**

2. **Dr. UmashankarM** has been awarded Doctor of Philosophy from VIT, Chennai,Tamilnadu,India,in the year 16th June 2021 for the titled "**Tribilogical Studies onZinc Aluminium Cast Alloys"**.

3. **Mr. Parashuram A K** has completed Comprehensive viva voce in the year 2021 from KSIT, Mech R & D, for the title **"Experimental and theoretical studies on oscillating heat pipes using pure and binary mixture of fluids"**under the guidance of **Dr. K. RamaNarasimha, Princpal/Director, KSSEM, Bengaluru**.

4. Mega ATV Championship (Our students of KSGI (KSIT and KSSEM) participated in **Mega ATV Championship** on **15 May 2022**

5. Team Redline Racing, K S Institute of Technology has participated in the event e-BAJA 2022 organized by SAEINDIA at NATRAX, Pithampur. Indore from 1st June to 5th June 2022

"E-ATV an electrical car designed and manufactured by the KSIT students was unveiled by the President of Kammavari Sangam Sri R. Rajagopala Naidu. This redline racer is one among the two from Karnataka to participate in the Red Line racing event "

Achievements by students:

1. **Mr Darshan G**, student has represented the VTU, Belagavi in south zone/all India inter university tournament/competition of Best Physique and **won the 1st Prize,** which was held at Chandigarh University (Punjab) from 8th March to 12th March 2022

2. **Mr Sankarshan**, K S Institute of Technology, Bengaluru has represented the VTU, Belagavi in south zone/all India inter university tournament/competition of Base Ball (Men) held at SavitriBai Phule Pune University, Pune from 14th March to 18th March 2022

Funded Projects:

1. Project entitled "**FABRICATION OF SONAR GLASSES FOR VISUALLY IMPAIRED PEOPLE**" by Mr Harish B, Mr Darshan G, Mr K Jeevan Kumar, Mr Manoj A under the guidance of **Mr Rajesh G L**, Assistant Professor, Department of Mechanical Engineering, KSIT has been approved by the Council under "Student Project Programme - 45th Series (KSCST)"and sanctioned an amount of **Rs.6000/**

100% result in VTU University Examination

1	Mr. Manjunath B R	18ME51	Management and Economics
2	Mr. Ranganath N	18ME55	Fluid Power Engineering
3	Mr. Nagabhushana M	18ME72	Computer Aided Design and Manufacturing
4	Mr. Rajesh G L	18ME734	Total Quality Management
5	Dr. Nagaprasad K S	18ME735	Operations Research
6	Dr. Girish T R	18ME743	Theory of Plasticity
7	Mr. Parashuram A K	18ME81	Energy Engineering
8	Mr. Ranganath N	18ME822	Tribology
9	Mr. Prasad K	18ME81	Energy Engineering
10	Dr. Girish T R	18ME822	Tribology

ARTIFICIAL INTELEGENCE AND MACHINE LEARNING:

Events conducted by the Department:

1. The Department of AIML Organized Guest Lecture on **"Embark on entrepreneurial journey to follow your dreams"** by Mr. Sourav, Alumni of KSIT **on 23rd October 2021.**

2. The Department of AIML Organized Guest Lecture on **"Engineering to build something useful"** by Mr. A Vaidhyanathan, Managing Director, Personal Air Quality Systems Pvt Ltd, Bangalore **on 29thOctober 2021**.

3. The Department of AIML Organized Guest Lecture on **"Importance of innovation and soft skills"** by Mr. Bhasyam Mahendra Goud, Delivery Manager, Digital Assurance (GTT), Hexaware Ltd. **on 19thNov2021.**

4. The Department of AIML Organized Guest Lecture on **"Quantitative Aptitude",** by Mr. Chandrahasan, Visiting Faculty, Amruta Business School **on 17thDec 2021**

5. The Department of AIML Organized workshop on **"Introduction to Data Mining"** by Prof. Srinivas Katharguppe, Adjunct professor, Dept. of AIML, KSIT **on 25th July 2022.**

Events attended by Faculty:

1. **Prof. Anu Mathew** attended Faculty Development Programme on **"Outcome Based Education"** organized by KSIT, Bengaluru from 17 th to 19 th March 2022.

2. **Prof. Amulyashree** attended Faculty Development Programme on **"Helping Students Develop their code Writing Skills with Parsons Problems"**. Organized by BITES on 18th June 2022.

Publications in International Journals:

1. **Ms. Anu Mathews, "Text Based and Image Based Recommender Systems: Fundamental Concepts, Comprehensive Review and Future Directions"**

International Journal of Engineering Trends and Technology, vol.70, no.10, pp.124-143, 2022. Crossref, https://doi.org/10.14445/22315381/IJETT-V70I10P214, ISSN:2349-0918 (Scopus Indexed-Q4)

2. **Dr. Ram P Rustagi. "Gamified Approach to Learning Algorithm - Huffman Coding"** Advanced Computing and Communications, ACCS quarterly magazine, First quarter 2022.

Achievements by Faculty

Thesis Examiner:

1. **Dr. Ram P Rustagi,** was one of the Ph. D thesis examiners for IIT Bombay for the thesis titled: "Fostering network troubleshooting skills among CS undergraduates", 2022

Recognition:

2. Dr. Ram P Rustagi, Professor and Head of the Department helped the Member Board of Studies Chanakya University for **designing** the course curriculum for their BSc and BCA program.

Resource Person:

3. Dr. Ram P Rustagi was invited as Network Technology Advisor to design Campus Network Architecture for Dayanand Sagar University, Bangalore

100% result in VTU University Examination

1. Prof. Ram Rustagi 18CS32 Data Structure and Applications

2. Prof. Aruna Rao 18CS33 Analog and Digital Electronics

BASIC SCIENCE AND HUMANITIES:

Events conducted by the Department:

1. An Induction Program was conducted by the department to the first year students on 13th to 18th December 2021. Student Induction Program engages with the new students as they come into the institution before regular classes starts. At the start of the induction the students will be familiarized with the institution process, practices, culture and values.

Guidelines about Rules and Regulations to the students by the Principal

Orientation program by the HOD'S of various departments

Orientation program by the HOD'S of various departments

2. Power of Well Being and Mindfulness Event to the first year students conducted on 11th March 2022.

Presentation by Dr. Priyanga

Events Attended by the Faculty:

1. **Dr. Jalaja P,** participated in the 2nd International Conference on Recent Trends in Applied and Computational Mathematics (ICRTACM – 2021), held on the 8th and 9th October,2021 organized by the Reva University Bangalore.

2. **2. Dr. Renuka C** attended two day workshop on "Implementation of NEP 2020" organized by BMSCE on 15th and 16th November 2021.

3. **3 Dr. Renuka C** attended a National Conference on Implementation of NEP 2020 "Challenges and opportunities for Educational Institutions" organized by EPSI on 30th November 2021 Bengaluru.

4. **4.Ms. Shylaja K R** attended a National Webinar on innovation in catalysis for Sustainable Organic Synthesis on 20th July 2021 at SVCE Bangalore.

5. **Ms. Shylaja K R** attended a National Webinar on innovation in catalysis for Sustainable Organic Synthesis on 20th July 2021 at SVCE Bangalore

6. **5.Dr. S R Kirankumar** participated in the International E-Conference on recent Advances in Chemical, Physical and Biological Sciences (RACPBS-2021) on 29th to

30th June 2021, Organized by the department of Chemistry at HomiBhabha Centre for Science education TIFR Mumbai.

7. **6.Dr. S R Kirankumar** participated in the NAAC Sponsored National webinar on " Impact of Covid-19 Pandemic Crisis on Higher Education Institutions in Karnataka and its challenges" Organized by IQAC held on 20th July, 2021 at HKE Society Yadgiri.

8. **Dr. S R Kirankumar** participated in the National webinar on "Nuclear Radiation for Societal Applications" organized by Department of Physics and IQAC on 7th September 2021 at Dada Patil Mahavidyalaya, Karjat Dist- Ahmednagar (MS) India.

9. **Dr. S R Kirankumar** Participated in the International webinar on "Empowering Diversity in science" organized by the department of chemistry on 16th February 2022 at KNM, Nagpur and Association of (TIFR) Mumbai in Collaboration with (IUPAC).

10. **Dr. S R Kirankumar** Participated in the International one week Faculty Development Program on Research Methodology from 2nd May 2022 to 7th May 2022, organized by department of chemistry KNM, Nagpur, Maharashtra.

11. **Dr. Jalaja P,** participated in 3 Days Faculty Development Program on " Outcome Based Education" at K S Institute of Technology , Bengaluru from 17th – 19th March 2022.

12. **Dr. Jalaja P**, participated in **5** Days Faculty Development Program on "ICT Tools for Innovative Teaching & Learning Process" Conducted by the Department of Information Science &Engineering from 28th March – 1st April,2022 at RV Institute of Technology and Management, Bengaluru.

13. **Dr. Jalaja P**, participated in Faculty Development Program on **"** Problem Solving using Python Programming**"** organized by the Department of Mathematics, JSS Academy of Technical Education **,** Bengaluru during 29th and 30th June 2022.

14. **Dr S. R. Kiran Kumar** participated in 3 Days Faculty Development Program on " Outcome Based Education" at K S Institute of Technology , Bengaluru from 17th – 19th March 2022.

15. **Dr S.R. Kiran Kumar** Participated in IP Awareness/Training program under National intellectual property awareness mission organized by Intellectual Property office, India on 4th March 2022 .

16. **Dr S.R. Kiran Kumar** Participated in the INUP i2i on-line Familiarization Workshop on Nanofabrication and Characterization, held at IIT Kharagpur during 10th to 12th February, 2022.

17. **Dr S. R. Kiran Kumar** Participated in the National webinar on Trends in Modern Molecules and Materials Discovery held on 26th February 2022 organized by KL university department of chemistry Andhra Pradesh.

18. **Dr S.R. Kiran Kumar** Participated in the online Faculty Enrichment Program on " Needs and Metrics of Green Chemistry organized by department of chemistry, Vivekananda College, Tiruvedakam, Madurai on 31st March 2022.

19. **Dr Jalaja P**, Participated in Webinar on **"Data privacy and social media safety"** organized by the Digital Shakti , supported by Women Empowerment cell, (VTU) Bengaluru, on 07th June 2022.

20. **Dr S.R. Kiran Kumar** Participated in   one day workshop on Chemistry Syllabus in Engineering and B.Sc. (Hon's) Course on 11th June 2022 at City Engineering College, Bengaluru.

21. **Mrs. Shylaja K.R** attended 3 days Faculty Development Program   on "Outcome Based Education" at K.S. Institute of Technology, Bengaluru from 17th-19th March 2022.

22. **Mrs. Radhika. N. P** attended 3 days Faculty Development Program on "Outcome Based Education" at K.S. Institute of Technology, from 17th-19th March 2022.

23. **Mrs. Radhika. N. P** participated in National level Webinar on "Advanced Bio Based Polymer Blends for Engineering Applications" conducted by department of chemistry, SJC Institute of Technology, Chickballapur, on 3rd June 2022.

Publications in International Journals:

1. **Dr. S.R Kiran Kumar** Published, "ZnO@MnO2 Nan composite Modified Carbon Paste Electrode for Electrochemical Detection of Dopamine", Elsevier-Journal Sensors International 2021. Vol. 8, Nos. 3, 2021, ISSN: 2666-3511.

2. **Dr. S.R Kiran Kumar** Published "Electrochemical Sensor for detecting Dopamine using Multiwalled Carbon Nanotubes by Catalyst Chemical Vapor Deposition Method, Journal of Elsevier-Physica B: Condensed Matter, Volume 620, 1 November 2021, 413137.

3. **Dr. S.R Kiran Kumar** presented a paper **"Development of ZnO-NiO Nanocomposites for the Electrochemical Detection of Dopamine using Modified Carbon Paste Electrode".** Journal of Chemical and Pharmaceutical Research, 2021, 13(8):01-10, ISSN: 0975-7384, CODEN(USA) : JCPRC5.

4. **Dr. S. R Kiran Kumar** presented a paper **"Development of CuO nanoparticles for the efficacy of voltametric response of dopamine and antimicrobial activity",** Springer 2021 proceeding in Materials, Series ISSN 2662-3161.

Achievements by Faculty:

1. **Dr. S.R Kiran Kumar** Chaired the Annual national Conference Jnana Chilume-2022 at faculty of Engineering & Technology, Jain University on 1st June 2022, Bengaluru.

100% RESULTS
1. Mrs Radhika N. P   - Engineering Chemistry - 21 CHE22
2. Mr. Santosh Kumar B. R   - Basic Electronics & Communication Engineering 21ELN24
3. Mr .Parushuram   - Elements of Mechanical Enginnering 21EME25

PLACEMENT CELL:

Event Conducted By Department:

1. **TOEFL** conducted a Virtual webinar on **"Road to Study Abroad"** for 6th to 8th semester students on 9 June 2021

2. **Rare Minds** conducted a Virtual webinar on **"Scope and Possible career Opportunities"** for 6" semester students on 10th June, 2001

3. **Texas Review** conducted a Virtual webinar on **"Exclusive Prospect of Career Counseling& Innovative"** Abroad Educational Programs for 8^{th}semester students on 16 June 201

4. **Indian Machine** tool conducted a Virtual webinar on **"Design Engineer-As A Successful Carrier Path For Fresh Engineers"** for 8 semester students on 17 June, 2021

5. **Textbook College Connect** conducted a Virtual webinar on **"How To Approach Gate 2022"** for 6 semeste rstudents on 18 June 2021

6. **TCS** conducted a Virial webinar on **"TATTVA CONNECT SESSION"** for 6 semester students on 21 June 2021

7. **The Skill Factory** conducted a **"Personal Development Programme"** for 6th semester students from 8^{th}July 2021 to 14 July 2021

8. JV Global conducted **"Personal Development Programme"** for 2 and 4 semester students from 8^{th}July 2021 to 13th July 2021

9. PLACEMENT DEPARTMENT conducted **"AN ORIENTATION PROGRAM FOR 7th SEMESTER STUDENTS"** on 11/10/2021

10. ORIENTATION PROGRAM conducted by **TCS** RECRUITMENT FOR 2022 BATCH -" by Training & Placement Officer Dr. HARISH for VII Semester students of all branches to brief about the TCS Freshers Hiring 2022 on 11th August 2021.

11. **TCS** Company Specific Training is Schedule on 6th, 7th & 8th October 2021 for final year students at KSIT Bangalore. Students who has registered for TCS NINJA HIRING Drive

12. Placement department has conducted an **orientation program** for 7th semester students on 11/10/2021 at conference hall.

13. **INFOSYS** - **Company Specific Training** is conducted on 28th, 29th & 30th October 2021 for final year students at KSIT Bangalore.

14. Placement Department conducted the Seminar on "**How to Study abroad"** on 23rd December at KSIT for 7th Semester Students from 2:30pm - 4pm at Seminar Hall Ground Floor.

15. Placement Department conducted **"Center of excellence"** in collaboration with Avaali Solutions at KSIT Campus in coordination with Computer Science Engineering Department on 24th May 2022 at 10.30 AM.

16. Placement Department conducted an **Orientation Session** to all the Unplaced students of all the Branches on 25th May 2022 at 10.00 AM in KSSEM Aryabhata Hall. And is Organized By: Pentagon Space Pvt. Ltd.

17. Placement Department conducted a Seminar on **"Job Opportunities for Mechanical Graduates"** for all the 3rd Year and 4th Year Students of Mechanical EngineeringDepartment on 23rd May 2022 at 10.00 AM in Conference Hall.

Placement Details:

S.No	NO OF ELIGIBLE STUDENTS	81	89	18	57	245
	NAME OF COMPANIES	CS	EC	ET	MECH	TOTAL
1	TCS	24	23	3	1	51
2	WIPRO	27	10	2	2	41
3	TECH MAHINDRA	11	2	0	0	13
4	IBM	1	2	0	0	3
5	SASKEN TECHNOLOGIES	0	7	0	0	7
6	LUMOS LEARNING	1	0	0	0	1
7	GUPSHUP TECHNOLOGIES	1	0	0	0	1
8	ZENSAR	2	0	0	0	2
9	DELTA X	1	0	0	0	1
10	HEXAWARE	9	3	0	0	12
11	AGILE POINT	2	0	0	0	2
12	SMOLLON	2	0	0	0	2
13	HIGH PEAK SOFTWARE	0	0	1	0	1
14	NTT DATA	12	11	0	0	23
15	TECHNOLOGICS	0	0	1	0	1
16	TURING MINDS	0	6	1	1	8
17	CAPGEMINI	4	10	4	0	18
18	MERCEDES BENZ	1	1	0	0	2
19	JUSPAY	1	0	0	0	1
20	PALLE TECHNOLOGIES	8	3	0	3	14

21	6D TECHNOLOGIES	2	1	0	0	3
22	V TIGER	3	1	0	0	4
23	QUEST GLOBAL	5	4	0	0	9
24	MITSOGO	1	0	0	0	1
25	LEADSQUARED	2	0	0	0	2
26	BYJUS	0	0	1	1	2
27	INFOSYS	18	10	3	0	31
28	NTT DATA	2	3	0	0	5
29	MPOKKET	4	1	1	1	7
30	HEALTH ASYST	1	3	0	0	4
31	L & T	2	0	0	0	2
32	CLARIVATE	0	2	0	0	2
33	SONATA SOFTWARE	3	4	0	0	7
34	ROBOSOFT	2	0	0	0	2
35	ECLINICAL WORKS	4	2	0	0	6
36	GHAROFFICE	0	3	0	0	3
37	COGNISURE	0	3	0	0	3
38	VITESCO TECHNOLOGIES	0	1	0	0	1
39	AVAALI SOLUTIONS	0	0	3	0	3
40	RINEX TECHNOLOGIES	2	1	0	0	3
41	HAPPIEST MINDS	0	2	0	0	2
42	MINDTREE	1	2	0	0	3
43	HUDL	0	1	0	1	2
44	PRESTO	0	1	0	0	1
45	BOSCH	5	14	0	0	19
46	HCL	1	1	0	0	2
47	KGPCo	0	1	0	0	1
48	Diognal Ops	0	1	0	0	1
49	VVDN TECHNOLOGIES	0	0	1	0	1

50	RAZOR PAY	1	0	0	0	1
51	Suprajit Technology	0	1	0	1	2
52	Wuerth Elektronik India Pvt Ltd.	4	0	0	0	4
53	SAKHA TECHNOLOGIES	3	0	0	0	3
54	ZUCITECH SOFTWARE SOLUTIONS	0	1	0	1	2
55	TEACHNOOK	2	0	0	0	2
56	TOYOTA	0	0	0	4	4
57	HP	1	0	0	0	1
	GRAND TOTAL	**176**	**142**	**21**	**16**	**355**

National Service Scheme:

1. The NSS Unit of KSIT in the wings of National Service Scheme (NSS) organized 'REPUBLIC DAY' on 26TH JANUARY 2022. Dr.Dilip Kumar K, Principal of KSIT, Principal of Polytechnic Suresh Kumar, Dr. K V A Balaji, CEO of K S Group of Institutions, Dr.Sangappa, Director-Admissions PRO, the management cell, Mr. Naveen V, NSS PO and Mr. Umesh S, Physical Education Director inaugurated the function. All the Heads of the department, NSS committee members, teaching & non-teaching staff and NSS Volunteers were present in the event.

The president and the principal addressed the gathering. The invocation was led by a senior singing a patriotic song. The flag was hoisted by the dignitaries which was led by the national anthem. The president and the principal addressed the gathering. The crowd was dispersed and refreshments were given.

2. International yoga day was celebrated in KSIT campus on 21-06-2022 by NSS unit from 8:30am to 10:30am. The startedof with NSS volunteers warming up before doing yoga poses. Our principle also gave an head start by cheering up the students with his speech to maintain healthy mindset and body by regularly practicing yoga. Our seniors led the crowd by guiding how to do many asanas and meditation. In the end after an hour session enlightening of yoga breakfast was given to the students.

Suryanamaskara

3. The NSS Cell of KSIT under the umbrella of National Service Scheme(NSS) celebrated Blood Donation Camp on 13th June 2022 in KSIT campus. Chief Guest-Mrs.TriptiRao, Mrs. India 2017, Mrs.world Finalist 2017 Entrepreneur, Educator, Media Panelistand Keynote Speaker, Sri.R.LeelaShankar Rao, HonSecretory ,Kammavari Sangham and Sri.T.NeerajakhuluNaidu, Treasurer, Kammavari Sangham Grace the Occasion.

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4. ENVIRONMENTAL DAY was celebrated in KSIT campus on 06.06.2022 by NSS UNIT OF KSIT at 2.50pm -3.30pm. All the volunteers took part in the event for celebrating environmental day organized by KSIT NSS unit. They planted several saplings of different

kinds. Students from all the semester came up front as a joint force to save mother Earth and to preserve and raise awareness about the deteriorating environmental conditions. The event went on successfully.

Principal and staff planting saplings

NSS Unit Celebrating Environmental Day

GRADUATION DAY:

K.S. Institute of technology (KSIT), Bengaluru organized graduation day ceremony at the Institute premises on 26th March, 2022 around 10.30 AM for the graduates of batches 2016-2020 and 2017-2021.

The dignitaries chief guest Dr. Gopalan Jagadeesh, Guest of Honour Mr. Gururaj Nayak along with management committee members including our Honourable Secretary Sri R. Leela Shankar Rao, President Sri. R. Rajagopal Naidu, Treasurer Sri. T. Neerajakshulu Naidu, CEO Dr. K. V. A. Balaji, KSIT Principal Dr. Dileep Kumar K, HOD CSE-Dr. Rekha B. Venkatapura, ECE –Dr. P. N. Sudha, ME-Dr. M. Umashankar, TCE-Dr. Chanda V Reddy, AI&ML-Dr. Ram P. Rustagi enter the Quadrangle in Procession.

Graduation Day Ceremony Parade

Graduation day procession

Graduation day procession

Dignitaries on Dias

The program started with Nadageethe followed by Invocation prayer by Sumukha and team. Further, the crowd was welcomed by our principal, Dr. Dileep Kumar k with a speech addressing Chief guests, members of management, PhD graduates, MTech, B.E graduates and parents, by emphasizing significance of the ceremony followed by president declaring the "Graduation Day Open"

Welcome to chief guest and guest of honor

Felicitation of chief guest and guest of honor

In the program totally 670 degree certificates of two batches 2019 -20 and 2020-21 were distributed by the dignitaries to the PhD, M. Tech and B. E graduates. The program was declared closed by President.

DEPARTMENT OF PHYSICAL EDUCATION & SPORTS:

Sl. No.	Tournament/Competition	Held at	Date	No. of Students	National/State/University /Zonal	Achievement
1	VTU ,Intercollegiate Athletic Meet (M&W)	SJCIT, Chickballapur	26th to 30th June 2022	8	Inter-Collegiate	Secured 4th place in long jump
2	VTU ,Intercollegiate ,Chess (M) Tournament	**TOCE, Bangalore**	**22nd & 23rd June 2022**	5	Inter-Collegiate	Participated
3	Annual Sports day (KSIT,KSSEM & KSSA)	UCPE, Ground Jnanabharathi	11th June 2022	1325	College level	Over all team champion ship secured Dept.of CSE
4	VTU , Inter Zone Intercollegiate Throw ball (Women) Tournament	KIT , Tiptur	9th & 10th June 2022	11	Inter Zone	Secured 4th Place

5	VTU Bangalore South zone Throw ball Tournament	KSSEM Bengaluru.	6th & 7th June 2022	12	Inter-Collegiate	Secured Winner's Trophy
6	Cricket selection (M)	GAT , Bengaluru	27th May 2022	4	selections trails	Participated

KSIT students have Participated in VTU Intercollegiate Athletic meet at SJCIT, Chickballapur from 26th to 30th June 2022

VTU Intercollegiate Bengaluru zone Chess Men & Women tournament held at The Oxford college of Engineering , Bengaluru. Our college Men team Participated in this tournament the event held on 22nd & 23rd June 2022

VTU , Inter Intercollegiate Throw ball (Women) Tournament held at KSSEM , Bengaluru on 6th& 7th June 2022 & KSIT Team Secured Winners Trophy

ANANYA 2K22

The cultural activities enhance the confidence level of the students thereby allowing them to perform better. These activities develop the personality of the students and assist them in shaping a good career. In fact, students can also leverage the advantage of participating and conducting in various activities. This year K.S INSTITUE OF TECHNOLOGY decided to have its annual fest ANANYA 2K22 after a gap of 2 years with the theme "ANRUTHA" meaning "BEYOND IMAGINATION" which was dedicated to the COVID warriors.

The team of Ananya consists of chief co-ordinators, faculty co-ordinators and student co-ordinators named as core committee, various clubs and core volunteers without whose help Ananya couldn't be a full fledged event. Their dedication towards the task and duties to meet the expectations for the much awaited event of Ananya was all worth to be successful.

The most awaited day for every individual was the final day, all the core committee members and the clubs came together to give a last bash of the event. The event was a fully fledged with a grand success. It was a lit in every ones eye.

The moment of meeting their celebrity Renowed Anchor and Actress Ms ANUSHREE was the Chief Guest of ANANYA 2K22. The Inauguration program started at 9.00 am in the morning with chief guest, Management, CEO, Principal, Chief Coordinator and Student core coordinators. The program went on with all the events scheduled there onwards till grooving to the DJ night, the efforts was all worth the end.

5KMarathon– KSGI PARISARA

Department of Electrinics and Communication in association with IEEE,WIE & SPS, KSIT organized a 5K marathon " **KSGI PARISARA"** on 4[th]June 2022, sponsored by Gold's gym. This marathon is a short awarenessprogram to Save Environment From the 2nd week of May, the campaigningfor marathon had begun to make our fellow students of KSGI aware of theupcoming big event. The registrations began soon after the campaigning,thereby making an amazingly enthusiastic crowd. All the participants weregivenasweatshirt forthemarathon.

Winners of Marathon

Sports Day 2021-22

Department of Physical Education and Sports organized the Annual Sports Day on 11th June 2022 at UCPE stadium, Jnana Bharathi Campus, Bangalore University, Bangalore.

The programme started with an invocation song followed by march-past. The Chief Guest of the day was Dr. M. Shivaram Reddy , VTU Sports and Cultural Committee Member, PED of BMS College of Engineering. Sri Prajwal Krishna , Cricket ,Soft Ball & Hand Ball Player , Alumni of KSIT and Sri Jayanth Patil HH , Karate Player ,Alumni of KSSEM were invited as the Guests of Honor. They were welcomed by our beloved Principal Dr.Dilip Kumar K .

 The Chief Guest addressed the gathering and shared the importance of sports. Our Honorable Secretary Sri R. Leela Shankar Rao mentioned the importance of sports extended in the college and encouragement received from the Kammavari Sangam. The Treasurer Sri. T. Neerajakshulu Naidu, Sri. M Yogamurthy , Internal Auditor , CEO Dr.K.V.A.Balaji , Principal K.Rama Narasimha of KSSEM and all the Department Heads and Staff were present on the occasion. Finally, the vote of thanks was proposed by Dr.Sangappa SB , PRO / Director, KSGI .

Totally the events conducted were, 10 (Men) and 8(women) in which 1325students participated. The Individual championship was bagged by 1.Kushal Kadam , 4th Sem Mech 2. Likhitha N , 8th Sem CSE. The Overall team championship for Department was taken by Dept of Computer Science

Success Rate of 2018 Batch Students:

Department	No. of students Admitted during 2018	No. of students passed in VII Semester	Percentage
B.E. CSE	124	118	95.16
B.E. E&C	111	106	95.50
B.E. Mech	80	61	76.25
B.E. TCE	22	20	90.90
TOTAL	337	305	90.50