SJB Institute of Technology

II Jai Sri Gurudev II
Sri Adichunchanagiri Shikshana Trust (R)

BGS Health & Education City, Uttarahalli Road, Kengeri, Bengaluru - 560 060

Department of Electronics & Communication Engineering

E- kampana

Feb - Aug 2024   Volume 19

Vision:
Empowering Electronics and Communication engineers to meet the advancements in technological and societal needs.

Mission:
M1 : To facilitate students in acquiring proficiency & providing eminence in Technical education.
M2 : To imbibe value based education that contributes to the human values, ethics and societal relevance .
M3 : * To foster culture of innovation, industry and research in developing intellectual professionals and entrepreneurs.

About the Department

The Department of Electronics and Communication Engineering was established in the Institution during 2001. It is one of the Prestigious and Core department in the Institution, offering a UG program with an intake of 180 students. It is also a recognized "Research Center" by VTU. The department is headed by Dr. Chandrappa D N.

Dr. D. N. Chandrappa
Prof & HOD

The department is strengthened with 6 Professors, 6 Associate Professors, 14 Assistant Professors, and 12 Technical staff. The department has well-equipped laboratories with state-of-art infrastructure, a department library, and internet facilities. The Department endows with additional industrial training, live projects & hands-on to enhance employability. The department has secured 20 ranks in the PG program and 8 ranks in UG program till date.

Achievements

- 25 Ph.D scholars have completed and 12 Ph.D scholars have registered under the ECE Department research center.
- Faculties of the Department are members of various professional bodies such as ISTE, IEI, and IEEE.
- Progressive results and placement records.

Department Association with Industries

- MOU with NI Systems (India) Pvt. Ltd to establish NI Labview Academy.
- MOU with Intel Corporation (FICE), Knowx Innovations Pvt Ltd., Effent Technologies Pvt. Ltd, EDII.
- MOU with University of Agricultural Sciences, M/s Win Global Tek, Speckbit Exploratories Private Limited, Loginware Softec Pvt Ltd, Elint Labz.
- MOU with Rexroth Bosch Group to establish "Center of Excellence for Training and Research in Automation Technologies".
- MOU with M/s Tequed Labs, M/s Training World 360 Solutions Pvt. Ltd, M/s Dlithe Consultancy Services Pvt Ltd.
- MOU with M/s Jyoti Electronics Pvt. Ltd, M/s Global Quest Technologies, and M/s OKTRA EV Pvt. Ltd.
- Department Activities

Workshop / Seminar / Conference

2nd International conference titled "Distributed Computing and Optimization Techniques (ICDCOT -2024)" was held on March 15th & 16th 2024. The overwhelming response to ICDCOT 2024 has been truly remarkable, with an impressive 1600 submissions during its inaugural edition, after rigorous evaluation 210 papers got accepted showcasing the latest advancement from authors spanning 12 countries and regions.

The Department of Electronics and Communication Engineering Conducted a Student workshop titled "Implementation of the Neural Network for Image Classification" on 24th & 25th May 2024.

Conducted Orientation for 4th-semester students on 29/4/24 and the students were addressed by Dr Chandrappa D N, HOD.

Bengaluru, Karnataka, India
WF2W+49X, Kodipalya, Bengaluru, Karnataka 560060, India
Lat 12.900629°
Long 77.495979°
29/04/24 09:44 AM GMT +05:30

The Department of Electronics and Communication Engineering in association with E & ICT Academy, National IT Warangal, organized a Ten Days FDP titled "Artificial Intelligence, Machine Learning and Data Science for Engineering Applications" from 02/05/2024 to 11/05/2024 in an Online Meeting using Google Meet Platform.

Bengaluru, Karnataka, India
WF2W+4JX, Kodipalya, Bengaluru, Karnataka 560060, India
Lat 12.900601°
Long 77.496016°
25/05/24 03:42 PM GMT +05:30

The Department of Electronics and Communication Engineering GATE/GRE talk Titled "Study Destiny – Achieve your dream come true" by "K2GE" overseas Education consultants, Mr. Karthikeyan for 4th-semester students on 10/7/24 at 10.45 am to 11.45 am in ECE seminar hall

||Jai Sri Gurudev||
Sri Adichunchanagiri Shikahana Trust (R

Welcome
to the inaguration of
Faculty Development Program
2nd May – 11th May 2024
on
"Artificial Intelligence, Machine Learning and Data Science for Engineering Applications"
Organized by
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
SJB INSTITUTE OF TECHNOLOGY
in association with
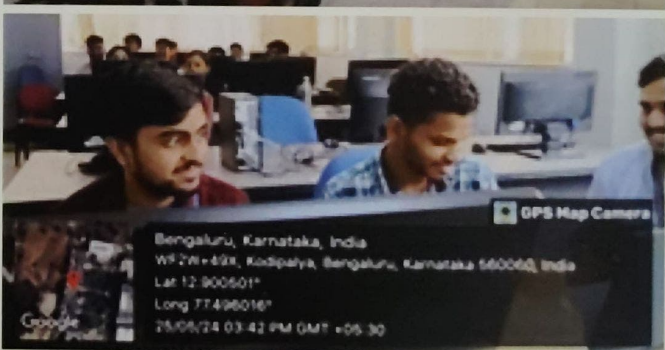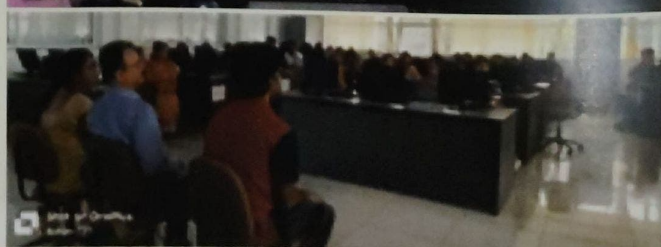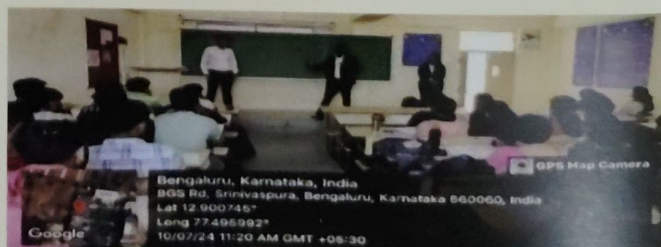**E & ICT Academy, NIT Warangal**

Inaguration Link: https://meet.google.com/znc-kkhv-tno

02nd May 2024
02:30 PM to 03:00 PM

Sessions : 03:00 PM to 07:00 PM

Bengaluru, Karnataka, India
BGS Rd, Srinivaspura, Bengaluru, Karnataka 560060, India
Lat 12.900745°
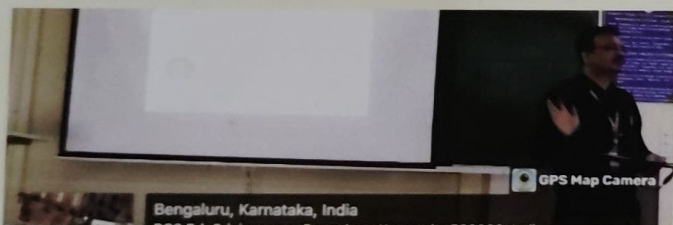Long 77.495992°
10/07/24 11:20 AM GMT +05:30

The Department of Electronics and Communication Engineering GATE/GRE talk Titled "Study Destiny – Achieve your dream come true" by "K2GE" overseas Education consultants, Mr. Karthikeyan for 6th-semester students on 10/7/24 from 11.45 am to 12.45 pm in ECE seminar hall.

Conducted a Motivational session on "Leadership and Ethics" on 10/7/24 by Mr. Dharmendra Kumar Arenahalli, a civil engineer by profession having worked all over the world, his adoration towards the history of Mysore city is inspiring many young minds.

Conducted Technical talk on "Accelerators/ Incubation – Opportunities for Students & Faculties – Early stage Entrepreneurs" organized by the Department of ECE, In association with IIC and EDC on 18/07/2024 from 1.30 pm. Dr. K Somashekar, Faculty Department of ECE Contributed as a Resource person for the event.

Department Of ECE Organized AICTE Training and Learning (ATAL) Academy Sponsored Six Days Faculty Development Program on" Languages and Methodologies for Future ASIC Verification" From 26th to 31st August 2024. 39 participants for the FDP.

Industry visit

The Department of Electronics and Communication Engineering Organized an Industry visit   " M/s IKP EDEN", Bhuvanappa Layout, Tavarakere Main road, Bangalore -29 for 4th Semester A sec Students to fulfill the credits of Internship on 29/5/24.

Alumni Interaction

Conducted Alumni Interaction by Mr.Lohith M, working in Texas Instruments, Graduated Batch 2021, he Motivating Youngsters how to set their goals in life will lead to success on 12th June 2024

Conducted Alumni Interaction by Mr.Rish, who Graduated Batch 2022, he provided in-depth information about career opportunities after graduation for 2nd sem students on 2nd July 2024.

Department Fest

Department of Electronics and Communication Engineering and Student Association of ECE Department organized a Farewell for 8th-semester students (Batch 2020) on 22/5/24

The department organized ECHORA 5.0 with the theme of "Never Before" on 8/6/2024. Organized various Technical Events and conducted a 5k marathon from SJBIT to Global Village West Gate.

Department events celebration

Rama Navami was celebrated on 17th April 2024 with all the enthusiasm and involvement from individuals of the department of ECE. All the staff were involved and got the blessings of Goddess Rama and were offered Prasadam to all the staff members and Students. All the teaching and non-teaching staff members participated and made the event a grand success.

Bengaluru, Karnataka, India

A formal send-off was hosted by the staff club of the ECE Department to Mr.Raghu MT, Foreman, on 17/4/2024.

Research Activity

- Chetana R (1JB17PEA17), under the guidance of Dr. Mahantesh K, completed her Ph.D. with the research titled "Epileptic Seizure Detection using Machine Learning," which was recognized with an award on 29th February 2024.

- Nandeesha R (1JB17PEA22), under the guidance of Dr. K Somashekar, completed her Ph.D. with the research titled "Development of an Efficient High Performance VLSI Architecture for Image Compression," which was recognized with an award on 24th May 2024.

- Manjunath V (1JB16PET11), under the guidance of Dr. K Somashekar, completed her Ph.D. with the research titled "ASIC design and characterization of Face detection Algorithms with respect to power and ageing for different process nodes," which was recognized with an award on 24th Aug 2024.

Staff Publication

Sl. No	Faculty Name	Title of the Paper	Month and Year of Publication	Conference Or Journal Details
1	Dr. Chandrappa D N	Plant Leaf Disease Detection Using Efficient Image Processing and Machine Learning Algorithms	Dec 2023	Journal of Robotics and Control (JRC) Volume 4, Issue 6, 2023 ISSN: 2715-5072, DOI: 10.18196/jrc.v4i6.20342, **Scopus , Q3, PP**-840-84
2	Dr. Rekha K R	Efficient Geographic Routing for High-Speed Data in Wireless Multimedia Sensor Networks	28 Dec 2023	Journal Européen des Systèmes Automatisés Vol. 56, No. 6, December, 2023, pp. 1003-1017, **Scopus , Q3**
3	Dr. Rekha K R	An efficient unused integrated circuits detection algorithm for parallel scan architecture	Feb 2024	International Journal of Electrical and Computer Engineering (IJECE) Vol. 14, No. 1, February 2024, PP- (469-478), ISSN: 2088-8708, **Scopus, Q3**
4	Dr. Sunitha Y N	Mathematical analysis of wavelet -based multi - image compression in medical diagnostics	2024	Journal of Discrete Mathematical Sciences & Cryptography , **Scopus , Q3** ISSN 0972-0529 (Print), ISSN 2169-0065 (Online) Vol. 27 (2024), No. 2-B, pp. 675–687
5	Mr. Rahul R Rai	Recalling-Enhanced Recurrent Neural Network optimized with Chimp Optimization Algorithm based speech enhancement for hearing aids.	30 Sept. 2023	Intelligent Decision Technologies 18 (2024) PP -123–134 ISSN 1872-4981, **Scopus , Q3**
6	Mrs. Jyothi H/ Dr. Komala M	An Efficient Abnormal Event Detection System in Video Surveillance Using Deep Learning - Based Reconfigurable Autoencoder	25 April 2024	Ingénierie des Systèmes d'Information Vol. 29, No. 2, April, 2024, pp. 677-686 , **Scopus , Q3**

Book Chapters / Conference

Sl. No	Faculty Name	Title of the Paper	Month & Year of Publication	Conference
1	Dr. Chandrappa D N	An Efficient Approach for the Classification of Leaf Diseases using Mobile Net based CNN Model	08 May 2024	2024 International Conference on Distributed Computing and Optimization Techniques (ICDCOT) Electronic ISBN:979-8-3503-8295-2
2	Dr. Rekha K R	Feedback linearization for SISO non-linear control system	9 November 2023	3rd International Conference On Robotics, Intelligent Automation And Control Technologies (RIACT2022) AIP Conf. Proc. 2946, 030005 (2023)
3	Dr. Rekha K R	Dynamic Power Synthesis Techniques for Combinational Circuit	08 February 2024	2023 International Conference on Recent Advances in Science and Engineering Technology (ICRASET) ISBN:979-8-3503-0692-7