Photon

Pursuit of Innovation...

SGBIT

ECE Bi-Annual News Letter Aug 20 - Mar 21

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering was established in the year 2008 and has been in the forefront of imparting quality education to the students. The department has a strong undergraduate program with an intake of 120 students. At present, 9 faculty members are pursuing PhD degree. UG students are encouraged to undertake various mini-projects in the lab. The students undergo soft skill programs to meet the needs of employability. The unwavering commitment towards students along with a pool of experienced and dedicated teaching faculty makes the department distinguished.

DEPARTMENT VISION

To be the Department of Electronics and Communication Engineering striving hard to develop responsive teaching–learning methodology, research and employable skills in allied fields by empowering students to become globally competent and socially responsible citizens.

DEPARTMENT MISSION

M1: To develop an active learning environment that ensures participation of students in both curricular as well as co-curricular activities.

M2: To foster research, innovation and creativity amongst students.

M3: To encourage development of entrepreneurial skills.

M4: To inculcate, amongst students, team-spirit, leadership qualities, positive attitude and effective communication skills to cater societal needs.

PEOs

PEO1: Be Successful in their professional career, higher studies and research by providing contextually relevant academic environment.

PEO2: Be committed citizens with social and professional concern.

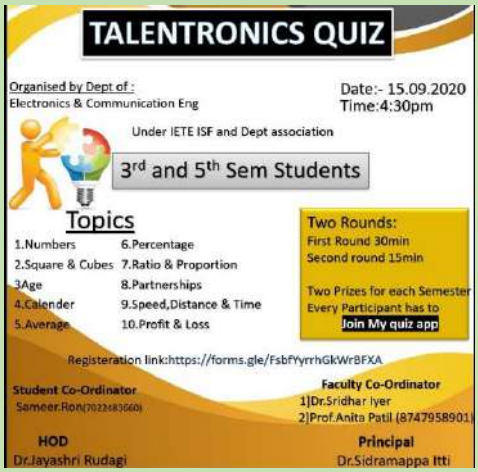
PEO3: Demonstrate leadership qualities and managerial skills in heterogeneous team globally.

PEO4: Be independent lifelong learners to keep the pace of technological change and industry expectations

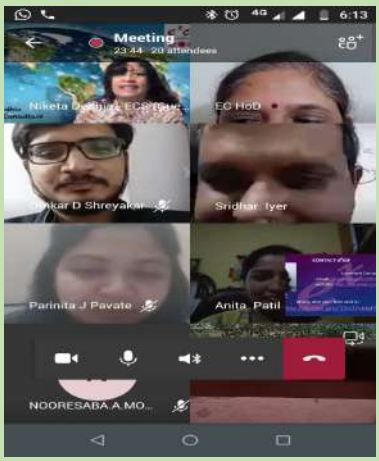
TALENTRONICS – QUIZ

A technical quiz entitled "Talentronics-2020" was organized on 14th Sept 2020 through IETE Chapter. The quiz mainly focused on Aptitude section to improve the logical & reasoning skills of the students which could aid them in getting better placements.

A total of 80 students participated in the quiz. The event was coordinated by Dr. Sridhar Iyer and Prof. Anita Patil.



WEBINAR ON "HIGHER EDUCATION OPPORTUNITIES IN GERMANY"



A webinar on "Higher Education Opportunities in Germany" was organized through IETE chapter on 08-11-20. The speaker for the event Mrs. Nivedita from USA gave the talk on "Opportunities in Germany". About 76 students participated in the event. The Event was organized by Dr. Sridhar Iyer and Prof. Anita Patil.

STTP ON AWARENESS OF INTELLECTUAL PROPERTY RIGHTS FOR ENGINEERS & INDUSTRIALISTS – PHASE 1

The Phase - 1 of the AICTE Sponsored Virtual Short Term Training Program (STTP) on "Awareness of Intellectual Property Rights for Engineers & Industrialists" was held between 17 to 22 November 2020. Mr. Hemant Kumar, Executive Secretary of KSCST, Bangalore was the Chief Guest for the function. The STTP was aimed to make the participants aware about Intellectual Property Rights (IPR) & how to apply for patents. About 12 sessions were held during the Phase-1 some of them were: IPR Overview - Understanding the basic of IPR - use of the powerful tool; Evolution of the country from data-poor mode to data-rich mode; Patents - Patent Process & Protection.

SGBIT INTERNATIONAL E-CONFERENCE ON APPLICATIONS OF INTELLIGENT COMPUTING

The Department of ECE organized the "International E-Conference on Applications of Intelligent Computing" (ICAIC-2020) on 27-28 November, 2020. The conference was inaugurated in the presence of His Holiness Dr. Siddharama Mahaswamiji, President, S.S.E.T; Dr. F. V. Manvi, Chairman (GC, SGBIT); Dr. Sidramappa V. Itti, Principal, SGBIT; Convener Dr. Jayashri M. Rudagi; Publication Chair Dr. Uday Wali & other Dept. Heads. The conference was aimed to bring together innovative academicians, researchers & industry experts in the field of Communication, Signal Processing, VLSI Design, Computing and Networking fields to a Common forum for a constructive discussion on theoretical concepts & practical ideas to promote a digital nation. About 40 papers were received from various universities & colleges for the conference. The received papers were reviewed & 19 papers were selected for publication.

WAVECE INAUGURAL FUNCTION

The WAVECE Inaugural Function was conducted on 04th Dec 2020 over the Online Platform Zoom. The Chief Guest of the function was Mr. Rahul Jain, Motivational Speaker and Life Skills Trainer. The Association Coordinator, Dr. Sridhar Iyer presented the Association Profile and the activities planned for students in the forthcoming semester. The new members of the Association were inducted with an oath during the session.

STTP ON AWARENESS OF INTELLECTUAL PROPERTY RIGHTS FOR ENGINEERS & INDUSTRIALISTS – PHASE 2

The Phase - 2 of STTP was held between 7 to 12 December 2020. Dr. T. Ramakrishna, Chair Professor & Chairman, NLSIU, Bangalore was the Chief Guest for the function. The Chief Guest addressed the participants about the Importance of the IPR & motivated the College Faculties to guide their students in developing great projects & obtaining IPR. A total of 12 sessions were held during the Phase – 2 of the STTP. Some of them were - Industrial design: Protection, rights, virtual studies by understanding court cases; Importance of Geographical Indications; Patent search & Strategies for Indian innovators.

MINI PROJECT COMPETATION: KAUSHALYA-2020

A Mini Project Exhibition cum competition was organized from 14th to 18th of December 2020 on MS Teams (Virtual Mode). Mr. Prajoth Kulkarni (SGBIT Alumni) were the Chief Guest for the exhibition. A total of 30 student groups participated and exhibited their innovative projects through MS Teams. The event was organized by Dr. Sunil S. Harakannanavar and Dr. Shilpa Mayannavar.

STTP ON AWARENESS OF INTELLECTUAL PROPERTY RIGHTS FOR ENGINEERS & INDUSTRIALISTS – PHASE 3

The Phase - 3 of STTP was held between 21 to 26 of December 2020. The chief guest for the function were Mr. Vivekanand Sagar, IP Attorney Consultant for KSCST, Bangalore. The Chief Guest addressed the participants about the Importance of the IPR Cell within an Engineering College & motivated the College Faculties to guide their students in developing great projects & obtaining IPR. A total of 12 sessions were held during Phase – 3 of the STTP. Some of them were - Bioprospecting (GI Plant Variety & Biotech Patents); WIPO - IP Match, Introduction & it's function; Trademarks: Cyberlaw and IP Law Interplay.

INAUGURATION OF INTELLECTUAL PROPERTY RIGHTS (IPR) CELL IN ASSOCIATION WITH KSCST, BENGALURU

The Intellectual Property Rights (IPR) Cell in Association with KSCST, Bangalore was Inaugurated on 21st of December 2020 by the Holy Hands - His Holiness Poojya Dr. Allamaprabhu Swamiji & by Mr. Vivekanand Sagar (Virtually). The Chairman GC of SGBIT, Dr. F. V. Manvi, Principal, Dr. Sidramappa V. Itti, Dean Academics, Dean Exam Section, HOD's of various Departments along with other faculty members were present on the occasion. The cell is aimed at giving all the information related to R&D Activities in the college, IPR Process & all necessary support to the students of the college.

FRESHERS WELCOME FUNCTION FOR 3RD SEM STUDENTS

A Freshers Welcome function was organized for the 3rd Semester Students on 05/02/2021. The Chief Guest of the function was Swami Mokshatmanad from Ramakrishna Ashram and the Guest of Honour was Mr. Gururaj Ujjinkopp, Software Development Specialist, Bangalore (SGBIT Alumni). The Chief Guest, then addressed the students with his words of wisdom and the

need of meditation for increased concentration. This was followed by the Speech of the Guest of Honour, Mr. Gururaj Ujjinkopp, who shared his views on the need for learning out of the syllabus and being practically oriented. The semester toppers and the winners of mini-project (Kaushalaya) were issued the certificates during the function.

FIRST BATCH (2008-2012) ALUMNI MEET

An Alumni Meet was organized on 13-Mar-21 for the first batch of the ECE Dept. (2008-12 Batch). The Guests for the function were His Holiness Poojya Shri Dr. Allamaprabhu Swamiji, President, S.S.E.T; Dr. F. V. Manvi, Chairman (GC, SGBIT); Dr. Sidramappa V. Itti, Principal, SGBIT; Dr. Jayashri M. Rudagi, HOD, ECE Dept. The Alumni felicitated Poojya Shri Dr. Allamaprabhu Swamiji & sought their blessings. Speaking on the

occasion Swamiji said the institution is not only providing technical education but also is giving spiritual knowledge for the holistic growth of the students. The principal spoke about how important the relation of Alumni & the college students is, as the Alumni are one of the Best Resource Persons to bridge the gap between Industry & Academia.

STUDENT's ACHIEVEMENT

TOPPERS OF EVEN SEMESTER [Jan – Jun 2020]

Sem	Rank	Name	Percentage	Topper
IV	1	Seema More	87.40%	Seema More IV Sem [1st Rank]
	2	Padmashri A	86.30%	
	3	Rithika Nagarali	86.20 %	
VI	1	Ankita Patil	91.10%	Ankita Patil VI Sem [1st Rank]
	2	Shweta Jyoti	89.40%	
	3	Rutuja Shirodkar	89.30%	
VIII	1	Jayamma M	89.57%	Jayamma M VIII Sem [1st Rank]
	2	Poornima Pattar	88.71%	
	3	Akshata H	88.29%	

WINNERS OF KAUSHALYA-2020

Name	Mini-Project Title	Place
Megha E	Wireless energy meter based on GSM modem	FIRST
Annapurana T		
Akshata H		
Mukta M		
Rithika B N	Electronic Talking Stick for Visually Challenged	SECOND
Tejaswini K		
Sejal N		
Rajashwari K		
Taniya S J	Water Spy - A Submarine Robot	SECOND
Sahista I M		
Sayeeda M		
Sonali M		

FACULTY ACHIEVEMENTS

- Dr. Sridhar Iyer published a paper entitled – **"Investigation of Cost and Spectrum Utilization in Internet Protocol-Over-Elastic Optical Networks"** in Journal of Optics (Publisher – IOP Science). ISSN - 0972-8821 in Aug 2020.
- Prof. Sujay Gejji published a paper entitled – **"Smart Monitoring and Testing of Water Quality in IoT Environment"** in International Research Journal of Engineering & Technology (Publisher – Fast Track Publication). Journal e-ISSN: 2395-0056, Volume: 07, Issue: 08 in Aug 2020.
- Dr. Shilpa Mayannavar published a paper entitled – **"Performance comparison of markov chain and LSTM models for spectrum prediction in GSM bands"** in Machine Learning for Predictive Analysis, Proceedings of ICTIS 2020 (Publisher – Springer). Print ISBN: 978-981-15-7105-3 in Oct 2020.
- Prof. Sidramayya S M published a paper entitled – **"Precoding Aided Data Correlation Scheme for Channel Estimation Technique in MIMO-OFDM System"** in WSEAS Transactions on Systems and Control (Publisher - WSEAS). ISSN / E-ISSN: 1991-8763 / 2224-2856, Volume 16, 2021, pp. 146-154 in Feb 2021.
- Prof. Jagadish S. Jakati published a paper entitled – **"A Noise Reduction Method Based on Modified LMS Algorithm of Real-time Speech Signals"** in WSEAS Transactions on Systems and Control (Publisher – WSEAS). ISSN / E-ISSN: 1991-8763 / 2224-2856, Volume 16, 2021, pp. 162-170 in Mar 2021.

2016-2020 BATCH PLACED STUDENTS

Student Name	Company	Student Name	Company
Aishwarya B	NTT Data	Pragathi Nayak	Wipro Technologies
Aishwarya B	Wipro Technologies	Prajakta Pakkannavar	NTT Data
Anju Devi	NTT Data	Prajakta Pakkannavar	Wipro Technologies
Anju Devi	IBM	Prajot Kulkarni	Tech Fortune
Bhagyashree H	SLK Softwares	Prajot Kulkarni	Pentagon Space
Disha Patankar	Wipro Technologies	Pranita S	Amrut Software
Kirti Konnur	Wipro Technologies	Pratiksha Borgave	Amrut Software
Kirti Konnur	Cognizant	Priyanka S	TCS
Kisan K	Cognizant	Rahul M	Infosys
Mahadev K	Wipro Technologies	Rahul Marikatti	NTT Data
Manjula Kore	Kodnest Technologies	Rohini Kittur	Tech Fortune
Neha Jalihal	Amrut Software	Shivani Hangirgekar	Kodnest Technologies
Neha Jalihal	Tech Fortune	Shravan M	Cognizant
Omkar Kulkarni	Tech Fortune	Shreya Desai	Tech Fortune
Padma Koppad	TCS	Smital Domble	Pentagon Space
Padma Koppad	Infosys	Tejaswini M	Wipro Technologies
Poornima Joshi	Kodnest Technologies	Vaibhav H	Cognizant

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