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## Department of Electronics and Communication Engineering

Volume - 4 (April - June 2022)



# SPECTRUM 2022



#### MESSAGE FROM DIRECTOR

I am happy to see that, the department of ECE is bringing out 'SPECTRUM 2022'. I wish you all the best to students and staff.

-Dr. R. G. Dharwadkar

#### MESSAGE FROM PRINCIPAL

On this bright day, I feel proud to see the progress that this Evolve magazine has made over the years. It pleases me to see the involvement which the students have in both the technical and non-technical zones. I would like to see a lot more exciting content and an increase in the students' contribution over the upcoming years.

-Dr. J. Shivakumar

#### MESSAGE FROM HOD

I am gratified to know that the department of Electronics & Communication Engineering is bringing out the second issue of our Departmental magazine "Spectrum" of the second quarter of the academic year (2021-2022). This is an informative magazine about the faculty and student achievements of the department in the period. I wish the department faculty and students a very big success in all their ventures. I also applaud the coordination and efforts behind the team to bring out this issue. I wish them all success.

-Dr. Krupa Rasane

#### ABOUT THE DEPARTMENT

The Electronics & Communication Engineering department is established in the year 2010. This is one of the premier departments in the college and is most preferred by the student community. The department is affiliated to VTU and has Research Centre established in the year 2018. Department has Professional Student Bodies like JCE IEEE Student Branch and IEEE Women in Engineering Bodies. It also has Department Staff and Student Association named as ECHO.

#### VISION OF DEPARTMENT

"To impart quality technical education for developing globally competent, ethically sound Electronics and Communication Engineers and innovators."

#### MISSION OF DEPARTMENT

- To provide conducive environment through structured student centric, teaching-learning process.
- To nurture needs of society by infusing scientific temper in students and to grow as a centre of excellence with effective industry-institute interaction.
- To inculcate self learning skills, entrepreneurial ability and professional ethics.

# **Department Activities**

# 1. Poster Presentation Competition On Account of World Earth Day

On the occasion of world earth day under the banner of ECHO and IEEE poster presentation competition was conducted on 22/04/2022 at department level. Around 20 students had participated and demonstrated their creativity through their poster about saving earth through idea of design thinking for sustainability.



## 2. Workshop on "Professional Documentation using LyX"





JCE IEEE, Women in Engineering (WiE) student branch with IEEE North Karnataka sub-section, ECHO with the Departmental Staff Branch of Electronics and Communication Engineering Department organized workshop "Professional on Documentation using LyX" for their students of 8th semester on 27/04/2022. On this day Dr. Shankaru Gugri, Associate Professor, Dept. of CSE, JCE, Belagavi was invited as a guest speaker for the event. The objective of workshop is to make final year students to understand the report writing in LyX along with hands on session for project report and seminar report writing. The workshop was appreciated and well received by the students who have attended. The workshop was headed by HOD Dr. Krupa Rasane and conducted by staff Prof. Salma S. Shahapur.

## 3. A technical talk on "National Technology Day"

JCE IEEE, Women in Engineering (WiE) student branch with IEEE North Karnataka sub section, IIC with the Departmental Staff and student Branch of Electronics and Communication Engineering Department organized a technical talk on "National Technology Day" for their students of 6th sem and 8th semesters on 11th May 2022. On this day Mrs. Chetana Sarang was invited as a guest speaker for the event. She has highlighted the importance of technology and the fastest growing technologies like Machine learning, Artificial Intelligence and Deep Learning. The talk was appreciated and well received by the students as well as the staff who have attended. The event was headed by Dr. Krupa Rasane and organized by Prof. M. Saritha an IEEE staff co-ordinator.



### 4. ARCANE-2022 Fresher's Welcome



The Department of Electronics and Communication Engineering at Jain College of Engineering conducted Fresher's welcome function "ARCANE-2022" and Inaugurated the activities of the student association "ECHO" on 4th June 2022. All the faculties along with final year students welcomed second & third year students to the department.

The welcome function began with lighting of lamp. And the Principal & Director Dr. J Shivakumar presided over the function with the presidential remarks, highlighted on the importance of Electronics & Communication in present life & learning modern technologies with software skills which can make students practically perfect.

The Head of E&C department, Dr. Krupa Rasane welcomed the august gathering and addressed the students regarding the opportunities and challenges in the journey of life she also enlighten on the what are the preparations which are needed in the corporate world.

The ECHO Secretary Prof. Shahak Patil, presented the annual report of the upcoming activities of the academic year 2021-2022.

The function was hosted by the ECHO student Coordinator Mr. Nitish Bhat.

## 5. School Adaption

JCE IEEE, Women in Engineering (WiE) student branch with the Departmental Staff and students of Electronics and Communication Engineering Department visited to a rural government school that is KSRP Government school Machhe on 10th June 2022. IEEE SB adopted this school to enrich the lives of the students studying their and helping them to overcome their basic needs in expressing and exploring their creative side in bringing their imagination into reality. 40 students of IEEE conducted some technical and non technical events for students along with career guidance through cancelling. The entire visit was guided by HOD Dr. Krupa Rasane and IEEE staff co-coordinators Prof. M. Saritha and Prof. Ashwini. A. Overall it was a successful event.







# 6. A workshop on "Machine Learning & Deep Learning"



JCE IEEE, Women in Engineering (WiE) student branch with IEEE North Karnataka sub-section, ECHO,IQAC with the Departmental Staff Branch of Electronics and Communication Engineering Department organized a workshop on "Machine Learning & Deep learning" for their students of 6th sem 17TH to 18TH June 2022. On this day Mr. Prashant Dhope was invited as a guest speaker for the event. He has highlighted the importance of the fastest growing technologies like Machine learning, Artificial Intelligence and Deep Learning, their algorithms, libraries and also implementation of the libraries using Raspberry Pi kit. The workshop was appreciated and well received by the students who have attended. The workshop was headed by HOD Dr. Krupa Rasane and conducted by IEEE staff coordinators Prof. M. Saritha and Prof. Ashwini Araballi.

## **Student Achievements**

## 1. Academic Toppers

#### **7TH SEM TOPPERS**

- 1. NIDHI K NILAJ
- 2. SNEHA I NAVALGATTI
- 3. POOJA BASTAWADI

#### **5TH SEM TOPPERS**

- 1. BHOOMIKA B KADABI
- 2. MRUNAL RAJESH CHOUGULE
- 3. SPOORTI VADAGAVE

# 2. Projects Sponsored Under Karnataka State Council for Science and Technology (KSCST)

PROJECT	PROJECT TITLE	NAME OF THE	NAME OF THE STUDENTS	SPONSORED
REFERENCE		GUIDE		AMOUNT
NUMBER				
45S_BE_0003	AFFORDABLE	PROF.	MR. FAIZAN ATTAR	8,000.00
1000 5507	AND PORTABLE	VINAYKUMAR R	MR. JUNAIDAHMED BEPARI	
	OXYGEN	BAGALI	MR. AZHARUDDIN KALADAGI	
	CONCENTRATOR		MR. ARBAZMEHDI KARIKAZI	
45S_BE_0006	SMART CROP	PROF.	MR. SANKET VIJAYKUMAR	8,000.00
	DRYING UNIT	SHIVANAND B	CHOUGALA	
	FOR POST-	HUGAR	MR. SANJAY GHORPADE	
	HARVEST		MR. SHIVAMALLU GHATNATTI	
	ACTIVITIES		MR. SHRISHAIL M KAROLI	

# 3. Projects Nominated under Visvesvaraya Technological University (VTU)

PROJECT TITLE	NAME OF THE GUIDE	NAME OF THE STUDENTS	
DEFENCE SURVEILLANCE	PROF. SALMA S. SHAHAPUR	SWAROOP TUBAKI	
		SACHIN HIREMATH	
		ARPITA A KANAGANNI	
		ANULAXMI S KHANAGANNI	
ELECTRONIC SHOE TO ASSIST VISUALLY	PROF. SALMA S. SHAHAPUR	VIKAS M BANDI	
CHALLENGED PEOPLE		GOPAL LAMANI	
		KIRAN PATIL	
		MAHANTH GOWDA S PATIL	

### 4. Project Expo

1st runner up at National Level Project Expo in Don Boscho Institution of Technology Bangalore

- 1. Venkatesh betgeri
- 2. Anmol badguli
- 3. Anil patil
- 4. Ganesh Gondkar

### 5. Hackathon

JCE students for secured first place with 30000/- cash prize at Karnataka s biggest Hackathon( 36 Hours long) held at Deshpande startups hubli.

Team Name: Team Quad Squad.

- 1. Omkar V Belgaonkar(CSE)
- 2. Shravankumar Janawade (E&C)
- 3. Suraj S Kotagi (E&C)
- 4. Chandrashekhar Yaragambalimath (E&C)





### **Placements**

	Placement Details (Academic Years)	Total strength	Candidates Eligible for Placements	Total Placements	
				With multiplaced	Without multiplaced
	2021-22 (still counting)	152	131	117	82(62.6%)

# **Faculty Achievements**

## Research Papers Published by Faculty

1.**Shahapur**, **Salma S**., Rajashri Khanai, and Dattaprasad A. Torse. "Performance analysis of error control codes for underwater wireless acoustic communication." Trends in Sciences 19.3 (2022): 2164-2164.

link: https://tis.wu.ac.th/index.php/tis/article/view/2164

- 2.**Shahapur, Salma S.**, Rajashri Khanai, and D. A. Torse. "Simulation of OFDM MIMO with IDMA for Underwater Acoustic Communication." ICCCE 2021. Springer, Singapore, 2022. 79-92. link: https://link.springer.com/chapter/10.1007/978-981-16-7985-8 9
- 3.**M. Saritha & Krupa Rasane**, "Image Despeckling Using Hybrid Method", ICCCE 2021, Springer, Singapore, 2022. 93 -101.

link: https://link.springer.com/chapter/10.1007/978-981-16-7985-8 10

4.Gujanatti Rudrappa, Arun Tigadi, Sadanand B Kulkarni, Sushant Jadhav, **Basavaraj Chougula** "CANoe Tool usage for Communication Between Automotive Grade Processors" 2022 3rd International Conference for Emerging Technology (INCET).

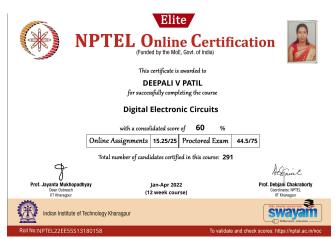
link: https://ieeexplore.ieee.org/document/9824832

5. Sushant Jadhav, **Basavaraj Chougula**, Gujanatti Rudrappa, Nataraj Vijapur, Arun Tigadi. "GoogLeNet Application towards Gesture Recognition for ASL Character Identification" 2022 IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE). link: https://ieeexplore.ieee.org/document/9793165

## **Certifications**



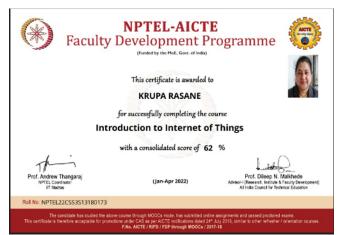
Prof. Ashwini Araballi NPTEL Online Certification Subject: Digital System Design



Prof. Deepali V Patil
NPTEL Online Cerfication
Subject: Digital Electronic Circuits



Prof. Shahak Patil
One Week Short Term Training Programme on
"Modelling and Simulation in Engineering
Applications"



Dr. Krupa Rasane NPTEL-AICTE FDP Subject: Introduction to Internet of Things



Dr. Krupa Rasane Senior Member IEEE Women in Engineering



Prof. V. R. Bagali Three Day FDP on "System Design Flow on Zynq using Vivado"



Dr. Krupa Rasane
Volunteer in 3rd edition of "IEEE Women in
Engineering Project-Based Learning School
Camp"



Dr. Krupa Rasane Senior Member IEEE

# 3rd Internationl Conference of Emerging Technologies (INCET) 2022



#### About INCET 2022

3rd INCET 2022 is organized by JAIN COLLEGE OF ENGINEERING & TECHNOLOGY, Belgaum Karnataka, INDIA. This conference is Technically Sponsored by IEEE Bangalore Section.

### INCET-2022 SPEAKERS



Mr. Puneet Mishra.

Heading Satellite Antenna Characterization, Test & Design Section, ISRO, Bengaluru.



Dr. Parikshit Narendra Mahalle.

Dr. Parikshit Narendra Mahalle is Post Doc Researcher at CMI, Aalborg University, Copenhagen, Denmark.



Dr. Hussain Mahdi.

Hussain Mahdi is a lecturer at Computer and Software, College of Engineering, University of Diyala, Iraq.



Dr. Chanakya Kumar Jha.

Dr. Chanakya Kumar Jha is Director (Planning) Siddhant Group of Institutions, Secretary of Federation of World Academician 2021-2022, Member of Section Chapter committee at IEEE Region 10.