



Jain College of Engineering Belagavi

Approved by AICTE New Delhi, Affiliated to VTU Belagavi and Recognized by Government of Karnataka

Department of Electronics and Communication Engineering

Volume: 5 Issue: 1 (January - March 2023)



SPECTRUM 2023



MESSAGE FROM DIRECTOR

I am happy to see that, the department of ECE is bringing out 'SPECTRUM 2023'. 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 first issue of our Departmental magazine "Spectrum" of the first quarter of the year 2023. 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 achieve excellence in education and research for developing globally competent, ethically sound electronics & communication engineers.

MISSION OF DEPARTMENT

- To provide a conducive environment for learning 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 efficient industry-institute interaction.
- To inculcate self learning skills, entrepreneurial ability and professional ethics.

EDITORIAL COMMITTEE

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Department Activities

1. VIRTUAL ALUMNI MEET -2023

JCE, department of Electronics and Communication Engineering organized an Alumni Meet on 26th Jan 2023 to build a vibrant alumni network, to maintain endless relationship and to discover alumni potential by maintaining a close rapport with alumni, on a common platform. The event was hosted and co-ordinated by Prof. Ashwini Araballi. Dr. Krupa Rasane, HOD ECE welcomed the virtual meet by highlighting some of our alumni student's achievements in academics and placements. Some of our alumni shared their experiences. Principal & Director of JCE, Dr. J. Shivakumar addressed alumni's and highlighted some important points on NEP & NBA.



JAIN COLLEGE OF ENGINEERING, BELAGAVI

Department of Electronics & Communication Engineering

Dear Alumni,
We cordially invite you for the virtual Alumni meet on
Republic Day



REUNION

On 26th January 2023
Timing: 10:00AM to 10:45AM



Alumni Co-ordinators

Prof.Ashwini.A

HOD

Dr. Krupa Rasane

Principal & Director

Dr. J. Shivakumar

2. Virtual Parents Meet - 2023



JAIN COLLEGE OF ENGINEERING, BELAGAVI

Department of Electronics & Communication Engineering

Dear Parents,

We cordially invite you for the virtual Parent Meet on
Republic Day - 2023



Parents Meet

On 26th January 2023
Timing: 11:00AM to 11:45AM

Co-ordinator
Prof.Shahak Patil

HOD
Dr. Krupa Rasane

Principal & Director
Dr. J. Shivakumar

Jain College of Engineering (JCE), Department of Electronics and Communication Engineering conducted Virtual Parents Meet on 26-01-2023. Prof. Shahak Patil welcomed the parents. HOD Dr. Krupa Rasane presented the departmental presentation to the parents. Principal and Director Dr. J Shivakumar addressed the parents. Interaction session was conducted with the parents. Vote of thanks was proposed by Prof. Keshav Patil.

3. Seminar on “Menstrual Health & Hygiene” - 2023

Department of Electronics and Communication Engineering organized a seminar on “Menstrual Health & Hygiene” on 15th Feb 2023 to educate everyone about periods which will help the people around us to be open about it and not to treat it as an embarrassment. There are girls who are still not knowing what type of hygiene that is supposed to be maintained during those days. Dr. Krupa Rasane, HOD ECE welcomed the volunteers of “NITYA” NGO. The event was hosted and co-ordinated by IEEE Student coordinators Miss. Bhoomika Kadabi & Miss. Morti Anjali Mahesh & faculty coordinators Prof. Ashwini A & Prof. Deepali Patil.



4. A talk on “A Journey of an Indian Business Woman” on the occasion of International Women’s day celebration.

Department of Electronics & Communication Engineering, Jain College of Engineering (JCE), Belagavi, in association with IEEE Student Branch, WiE organized a talk on “A Journey of an Indian Business Woman” on the occasion of International Women’s day celebration on 14/03/2023. To encourage girl students to excel in STEM education by providing them several platforms to develop their leadership skills that can be utilized in their future lives.

IEEE-WiE SB specially motivates women candidates to explore their talents all around in all the related fields of STEM education. Also to celebrate an International Women's Day to honor every women all around the world who are involved in technical education. Chief Guest Ms. Soniya Netalkar took us to her journey as a business woman and highlighted women in engineering in her talk.



Faculty Achievements

Paper Publications

1. Dattaprasad A. Torse, Rajashri Khanai, Krishna Pai, Sridhar Iyer, Swati Mavinkattimath, Rakhee Kallimani & **Salma Shahpur**, Optimal feature selection for COVID-19 detection with CT images enabled by metaheuristic optimization and artificial intelligence. *Multimed Tools Appl* (2023). <https://doi.org/10.1007/s11042-023-15031-7>.
2. **Shahapur, S.S.**, Khanai, R. & Torse, D.A. FSRCLP: Fuzzy Based Secure Reliable Cross Layer Protocol for Underwater Acoustic Communication. *Wireless Pers Commun* 129, 2813–2828 (2023). <https://doi.org/10.1007/s11277-023-10259-w>
3. **B. Kattimani** and R. R.Patil, "Gain and Bandwidth Enhancement of Sierpinski Carpet Based Fractal Patch Antenna Using Stacked Configuration," 2023 2nd International Conference for Innovation in Technology (INOCON), Bangalore, India, 2023, pp. 1-5, doi: 10.1109/INOCON57975.2023.10101022.

Faculty Development Programs

1. Prof. Keshav Patil, Prof. Shivanand Upari, Prof Deepali Patil, Prof. Kavita Kadali, Prof. Ravindra Sulebhavi and Prof. Gourang Naik completed one week AICTE-VTU Joint Teachers Training Programme on "Introduction to Python Programming and its applications" from 13th to 17th March.
2. Prof. Keshav Patil, Prof. Shivanand Upari, Prof. Shivanand Hugar, Prof. Ashwini Araballi, Prof. Kavita Kadali and Prof. Gourang Naik completed one week AICTE-VTU Joint Teachers Training Programme on "Analog VLSI Design using EDA Tools" from 20th to 25th March.
3. Prof. Keshav Patil, Prof. Shivanand Upari completed one week AICTE-VTU Joint Teachers Training Programme on "Introduction to Web Programming" from 27th to 31st March.
4. Prof. Vinayakumar Bagali and Prof. Basavaraj Chougula completed 45 hours of Phase 3 ISTE IOT Training.
5. Prof. Shahak Patil completed a FDP on Smart Grid Enabling Technology for sustainable future from 13th to 17th March 2023.

Training Programs conducted by faculty

1. Prof. Vinayakumar Bagali, Prof. Basavaraj Chougula, Prof, Vinayak Dalavi, Prof. Shahak Patil, Prof. Shivanand Upari, Prof. Keshav Patil, Prof Ashwini Araballi, Prof. Deepali Patil and Prof. Praveen Bansode conducted hands on sessions on arduino Uno for first year UG students from 4th Feb 2023 to 25th Feb 2023.

Student Achievements

Paper Publications

1. S. Tubaki, A. Kanaganni, S. Hiremath, A. Khanaganni and S. Shahpur, "Automated Defence Surveillance Using Tranquilizer," 2022 IEEE 4th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA), Goa, India, 2022, pp. 144-149, doi: 10.1109/ICCCMLA56841.2022.9989050.
2. K. Badiger, D. Bagewadi, S. Farooqui, M. Saritha and S. S. Shahapur, "Impact Of Global Warming On Endangered Species Using Data Science," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), Mysuru, India, 2022, pp. 1-5, doi: 10.1109/MysuruCon55714.2022.9972378.

7th Semester Toppers

1. BHARATI D GUTTEPPANAVAR(2JI19EC036) - 91%
2. BHOOMIKA B KADABI(2JI19EC038) - 89%
3. VISHAL N KARAMBALKAR(2JI19EC153) - 89%
4. CHANDRASHEKHAR Y(2JI19EC041) - 88%
5. CHAITRA BHADRASHETTI(2JI19EC039) - 88%
6. OM MEGHARAJ(2JI19EC078) - 88%
7. MAHADEVI KALAGHATAGI(2JI19EC055) - 88%
8. SHRUSTI M AMBADAGATTI(2JI19EC123) - 88%

5th Semester Toppers

1. BALAYYA S WALAGINAMATH(2JI20EC028) - 91%
2. KARTIK SOLANKI(2JI20EC053) - 89%
3. ATIYA FAZIL(2JI20EC025) - 87%
4. KIRAN BASAVARAJ KARADI(2JI20EC054) - 87%

Placements

Students (2023 Passout Batch) are placed in reputed companies like TCS, Smart SoC Solutions, Musigma, Accenture, Crave infotech. Below Graph shows the Placement offers till now with salary offered in LPA.

