



National Education Society (R.)
J. N. N College of Engineering, Shivamogga
(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC –'B',
All 7 UG Programs have been Accredited By National Board Of Accreditation (NBA)
for period 1.7.2022 to 30.6.2025,
Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)



ELECTRONICS & COMMUNICATION ENGINEERING

Events Organized in 2025:

- ❖ The Department of Electronics and Communication Engineering, JNNCE, organized a Project Exhibition-cum-Competition on 05/12/2025. The event was successfully coordinated by Mrs. Ujwala B S and Mrs. Nalina S B, Assistant Professors.



Inauguration of Project Exhibition-cum-Competition by Nagaraja, Analog Layout Engineer, Texas Instrument , Bangalore and Pallavi Bhat, Associate Software Engineer , Prerana Engineering Works, Bangalore

- ❖ Annual Technical Symposium PLASMA 2025 was conducted during 21/11/2025 to 22/11/2025 in JNNCE, Shimoga, coordinated by Dr. Anil Kumar J, Dr. Prashanth G S, Mr. Pradeepa S C, Assistant Professors.



PLASMA 2025 inaugurated by Ranjitha H V, Graphics hardware Engineer at Intel, Bangalore

- ❖ The expert talk on “Niryat Bandhu Seminar on Cross-Border Trade through E-Commerce & Engineering Export Opportunities” was organized on 13/11/2025 at the MBA Seminar Hall, coordinated by Mrs. Nalina S B and Mrs. Ujwala B S, Assistant Professors, delivered by Shri V.C. Ravish for the students.



Inauguration of the “Niryat Bandhu Seminar on Cross-Border Trade through E-Commerce and Engineering Export Opportunities by Shri V.C. Ravish

- ❖ An Outreach Program on “An Atal Tinkering Lab Initiative” was conducted at Jnanadeepa Middle School on 29/11/2025, coordinated by Mrs. Nalina S B, Assistant Professor, involving 5 students from the school.



Session of Atal Tinkering Lab Initiative

- ❖ The Outreach Program on “Stem Cell Awareness” was organized on 13/10/2025 at the Admin Block Seminar Hall, coordinated by Mrs. Ujwala B S, Assistant Professor, and delivered by Ms. Kruthika Ramesh for the students.
- ❖ The guest lecture titled “AI for Everyone: From Buzzword to Reality” was organized on 26/09/2025 at the CSE Seminar Hall, coordinated by Mrs. Ujwala B S, Assistant Professor, delivered by Mr. Rahil Murali for the students, under the NES banner.



Mr. Rahil Murali delivered a talk on “AI for Everyone: From Buzzword to Reality” for the students

- ❖ The invited talk on “Stress Management through Meditation” was organized at JNNCE, Shivamogga, from 24/09/2025 to 27/09/2025, coordinated by Ms. Sumathi K and Ms. Roopa B S, Assistant Professors, and delivered by Sri B K Swathi Sister from Prajapita Brahma Kumaris Eshwariya Vidyalaya, for the faculty and students of JNNCE.
- ❖ The invited talk on “Awareness on POSH Act” was organized at JNNCE on 22/09/2025 in the CS Seminar Hall, coordinated by Mrs. Nalina S B, Assistant Professor, and delivered by Mrs. Rekha G. M, for the faculty and students.



Mrs. Rekha G delivered a talk on “Awareness on POSH Act” for the students

- ❖ The expert talk on “Time Management” was organized on 16/09/2025 at the Admin Block Seminar Hall, JNNCE, coordinated by Ms. Ujwala B S, Assistant Professor, and delivered by Dr. Dhananjaya Sarji, MLC, Shivamogga, for the students.



Dr. Dhananjaya Sarji, MLC, Shivamogga, delivered a talk on “Time Management” for the students

- ❖ The Skill Development Program (SDP) on “Effective Document Writing Using LaTeX (with Hands-on Training)” was organized on 13/09/2025 at the Project Lab, Department of ECE, coordinated by Ms. Shwetha B, Assistant Professor and Dr. Shetty Pramod Kumar, Associate Professor, and conducted by Dr. Pramod S Kumar, Associate Professor, Mr. Darshan K V, Mr. Prashanth G S, and Ms. Shwetha B, Assistant Professors, for the students.
- ❖ The Skill Development Program (SDP) on “Practical Insights into Digital Modulation Techniques and Antenna Fundamentals” was organized on 13/09/2025 at the Digital Electronics Lab, coordinated by Mrs. Nalina S B and Mrs. Sumathi K, Assistant Professors.
- ❖ The session on “Introduction to Intellectual Property Rights” with partial delivery by an industry expert was organized on 12/09/2025 at the AD Block Seminar Hall, JNNCE, coordinated by Dr. Shwetha H R, Assistant Professor and delivered by Ms. Sadhvi C Kanth for the students.
- ❖ The Science and Technology Awareness Outreach Program “PRAVARTHANA-2025” was conducted at JNNCE Campus on 30/08/2025, coordinated by Dr. Prema K N, Assistant Professor, for the students of Government High School, Kommanalu, with Mr. Chandan and Mr. Rajath L serving as resource persons under the IEEE student association.



PRAVARTHANA-2025

- ❖ The industrial visit on “Hands-on Exposure to Emerging Technologies and Industry-Relevant Applications,” conducted in collaboration with NOKIA, Bangalore, was organized on 02/08/2025 & 23/08/2025 at the R&D Department, NOKIA, L5 Manyata Embassy Business Park, Outer Ring Road, Nagawara, Bengaluru, coordinated by Ms. Shwetha B and Mr. Darshan K V, Assistant Professor, with participation from faculty and students and support from the staff of the R&D Department, NOKIA.



Visit to NOKIA by students and staffs

- ❖ An expert talk was organised by IEEE ComSoc Bangalore Chapter, on 13/11/2025 to 18/11/2025 was hosted by ECE Dept JNNCE IEEE ComSoc Chapter. The resource person was Dr. Kohei Shiamoto at AD Block Seminar Hall, JNNCE. The Target Audience were students of ECE Department.
- ❖ IGNITE Internship Project Exhibition was organised in the department on 29/11/2025. IEEE Communications Society presents IGNITE 2025. The event was organised in ECE department of JNNCE Shivamogga. Dr. Shushrutha K S and Dr. Vishal J Rathod were the resource persons. Event was co-ordinated by Dr. SATHYANARAYANA S V, Dr. Sheela S, Shwetha B.

Technical Talk: How To Make The Most Out of IEEE Membership?

- ❖ **Date:** 11th October 2025 at 11:30 AM
Venue: AD Block Seminar Hall, JNNCE
 On the occasion of IEEE Day celebrations, a technical talk titled “How To Make The Most Out of IEEE Membership?” was organized to guide students on effectively utilizing IEEE resources. The session was delivered by Dr. Mohit P. Tahiliani, Associate Professor, Department of Computer Science and Engineering, NITK, Surathkal. The talk covered the structure of IEEE, different membership categories, access to digital libraries, technical societies, conferences, scholarships, and volunteering opportunities. Practical suggestions were given on how students can build their profile through participation in technical communities, paper presentations, and collaborative projects under the IEEE umbrella.



Distinguished Lecture on Advanced Network Engineering

Date: 13th November 2025

A distinguished lecture on advanced topics in network engineering was organized to provide engineering students with a deeper understanding of modern communication infrastructures. The resource person was Prof. Kohei Shiimoto, Professor, Tokyo City University, Japan, Senior IEEE Member. The expert speaker discussed network traffic modelling, performance optimization, network slicing concepts for resource isolation, software-defined networking (SDN) for flexible control, and the potential evolution of architectures towards beyond-6G systems. The lecture illustrated how theoretical models, simulation frameworks, and experimental test beds are used together in academic and industrial research.



Felicitations for Prof. Kohei Shiimoto, Professor, Tokyo City University, Japan

2025 IGNITE Internship

IGNITE 2025 is one of the flagship events of IEEE COMSOC Bangalore Chapter. The event was coordinated by Dr. Sheela S and Dr Soma Pandey, IEEE COMSOC Bangalore Chapter ExCom members. This year there were 27 projects registered across the state for the event. In this event, each project will be mentored by an internal mentor along with an industrial mentor and/or research academicians. The evaluation by juries was conducted on 29th November 2025 by the jury members from academia and industry. The best projects were awarded with Cash prizes.



Achievements of Faculty:

- ❖ Dr. Prema K N, Assistant Professor delivered a talk in a seminar “E-Samskara: Building Digital Competence and Digital Toxicity” held at Bapuji Ayurvedic Medical College and Hospital, Shivamogga, on 18/11/2025.
- ❖ Dr. Sharath S M, Associate Professor, served as a reviewer for the IEEE International Conference IC3IT-2025, organized at Mysuru Royal Institute of Technology, Mandya, under the IEEE, held from 24/10/2025 to 25/10/2025.
- ❖ Dr. Shetty Pramod Kumar and Dr. Sharath S M, Associate Professors, A served as a peer reviewer for the IEEE International Conference ICWITE-2025 from 26/09/2025 to 27/09/2025, organized by the IEEE Bangalore Section, India.
- ❖ Dr. Anil Kumar J, Assistant Professor served as a peer reviewer for the International Journal of Advanced Trends in Engineering and Engineering (IJATEE), published by ACCENTS Journals from 18/09/2025 to 26/09/2025, and 06/10/2025 to 17/10/2025, which is a Scopus-indexed journal.
- ❖ Dr. Prema K N, Assistant Professor served as a peer reviewer for “IEEE International Conference for Women in Innovation, Technology and Entrepreneurship ICWITE-25” during 26/09/2025 and 27/09/2025.

Publications:

- ❖ Ms. Ujwala B S, Mrs Sumathi K, Assistant Professors , Dr Shetty Pramod Kumar, Associate Professor, published a paper titled “Kannada Handwritten Numeral Recognition through Deep Learning and Optimized Hyper parameter Tuning” in International Journal of Artificial Intelligence , on 06/12/2025, Volume 14, Issue 6, pages 5038-5048 ISSN: 2252-8938.
- ❖ Mrs Roopa B S, Assistant Professor, published a paper titled “Cyber Security of Multi-Cloud Healthcare Systems: A Hierarchical Deep Learning Approach” in the International Journal of Applied Mathematics by Diogenes Co. Ltd. on 25/11/2025, Volume 38, Issue 5, pages 932–948, indexed in Scopus, with ISSN: 1311-1728.
- ❖ Mrs Roopa B S, Assistant Professor, Dr. Pramod Kumar S, Associate Professor, published a paper titled “Robust Point Cloud Registration with Adaptive Pied Kingfisher Transformer Architecture” in the International Journal of Intelligent Engineering and Systems, under the Intelligent Networks and Systems Society, on 18/10/2025, pages 230–244, indexed in Scopus, with ISSN: 2185-310X.
- ❖ Mrs Nalina S B, Assistant Professor, presented a paper titled “An Innovative Optimized Hybrid Image Compression Approach for Wireless Sensor Networks” is an International Conference paper at the 9th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) – I-SMAC 2025, held at Tribhuvan University, Purwanchal Campus, Nepal, from 08/10/2025 to 10/10/2025, pages 1332–1337, indexed in WoS, with ISBN: 979-8-3315-7472-7.
- ❖ Dr Shetty Pramod Kumar, Associate Professor, Pradeepa S C, Abhijith N, Assistant Professors, published a paper titled “A Novel Fuzzy Logic-Based Hepatic Tissues Segmentation from CT Scan” in the IAENG International Journal of Computer Science (IAENG) on 01/08/2025, Volume 52, Issue 8, pages 2922–2934, indexed in Scopus and UGC, with ISSN: 1819-9224.

Books:

- ❖ Dr. Sharath S M, Associate Professor and Dr Shwetha H R, Assistant Professors authored a book chapter titled “Modern Very Large Scale Integration (VLSI)”, published by Scientific International Publishing House, with ISBN: 978-93-7196-228-5.

Certification courses:

- Mrs. Nalina S B, Assistant Professor, completed the online course on “Breast Cancer Prediction Using Machine Learning” offered by Coursera, conducted from 02/10/2025 to 16/10/2025.

- Dr. Shetty Pramod Kumar, Associate Professor, has successfully completed the course titled “Allegro X PCB Editor Basic Techniques v24.1” by Cadence Design Systems, Inc from 16/09/2025 to 04/12/2025.
- Mr. Darshan K V, Assistant Professor, has successfully completed the NPTEL course titled “Digital Speech Processing” on 12/09/2025.
- Mrs. Roopa B S, Assistant Professor successfully completed NPTEL course on “Developing Soft Skills and Personality”, from 18/08/2025 to 10/10/2025.
- Dr. Anil Kumar J, Assistant Professor successfully completed NPTEL course on “Patent Drafting for Beginners ”, from 18/08/2025 to 10/10/2025 and “Cyber Security and the Internet of Things” by Course Era from 01/08/2025 to 04/08/2025.
- Mrs. Shwetha B, Assistant Professor successfully completed course on “Deep Learning with PyTorch : Object Localization” by Course Era, from 01/07/2025 to 29/08/2025.

Workshops/Webinars/FDPs attended:

- Mrs. Sumathi K, Assistant Professors participated in the Faculty Development Program (FDP) on “Recent Advances in Machine Learning Tools” conducted online from 24/11/2025 to 28/11/2025.
- Dr. Shetty Pramod Kumar, Associate Professor, participated in the VTU Workshop on “Innovation and Design Thinking” at UBDT College of Engineering, Davanagere, organized by VTU, held on 15/10/2025.
- Mr. Badrish K P, Instructor, participated in the workshop on “AI Tools for Smarter Offices & Everyday Administration” held at Avinashilingam Institute, Coimbatore, Tamil Nadu, India, from 10/11/2025 to 12/11/2025 and workshop on “Generation of Optical Fibre Communications with Quantum Augmentation: Shaping the Secured & Ultra-Fast Digital Information Superhighway,” organized by the IoT Society of India, held on 18/10/2025 from Lucknow, Uttar Pradesh, India.
- Ms. Sumathi K, Assistant Professor, participated in the Research Conclave for PhD Scholars held at JNNCE, Shivamogga, on 11/10/2025 as a Faculty Development Program (FDP) participant.
- Dr. Anil Kumar J, Assistant Professor, participated in the Faculty Development Program (FDP) on “Next-Gen Electronics and Communication Systems: Empowered by ML and AI” held at National Institute of Technology, Kurukshetra, organized by AICTE, from 06/10/2025 to 11/10/2025.
- Dr. Prashanth G S Assistant Professor, participated in the Faculty Development Program (FDP) on “How to Write a Research Paper Using AI Tools for Scopus and SCI Journals,” conducted in online mode from 29/09/2025 to 04/10/2025, organized as a self-sponsored program.
- Mrs. Nalina S B, Mrs Sumathi K, Mrs Ujwala B S, Assistant Professors, participated in the Faculty Development Program (FDP) on “Recent Trends in AI Text, Vision, and Hardware Implementation Modules,” organized by Panimalar Engineering College in association with STEP, NITK Surathkal, through Pantech e-Learning & STEP, held from 28/08/2025 to 02/09/2025.
- Mr. Harish T S, Assistant Professor, attended FDP on “AI in Medical Imaging and Diagnostics: Current Trends and Challenges” from 07/07/2025 to 18/08/2025.

Funding/ Grants:

Dr. Shwetha H R, Assistant Professor, received funding of ₹2,50,000 from NEWGEN IDC for the project “HydroSage: AI-Enhanced Smart Automation Prototype for Precision Hydroponics Farming”.

Dr. Prema K N, Assistant Professor, received funding of ₹2,50,000 from NEWGEN IDC for the project “Solar Powered, Sprayer For Dry Land Agriculture”.

Student’s accomplishments:

Sujay M S of 3rd semester participated in the NPTEL Certification program and successfully completed it on 11/10/2025.

Kavana R of 5th semester participated in the NPTEL Certification program and successfully completed it on 11/10/2025.

Under the guidance of Dr. Prema K N, Aishwarya M, Ananya A Hoysal of 5th semester students won the 3rd Prize in the IEEE Mini Project Symposium 2025, organized by the Mysore Sub Section at ATME College, Mysore on 25/10/2025

Student's Publications:

Ashish B S, Chirag S, Mohammed Zuheb S A, Nihaarikaa Girish of 7th semester published paper titled "Solar integrated Battery Powered Smart Wheelchair with Gesticulation, Impediment Identification and Voice Feedback using Arduino Mega" in International Conference on Interdisciplinary Technologies in Research and Artificial Intelligence (ICITRAI 2025), during 28/11/2025 and 29/11/2025 at The Tamil Nadu Dr. Ambedkar Law University (TNDALU), Chennai, Tamil Nadu, India & RSP Research Hub, Coimbatore, Tamil Nadu.

Sujay M S of 3rd semester published paper titled "Smart Irrigation Monitoring and Controlling System" in Journal of Computer Science, volume 18, issue:11, 25/11/ 2025, ISSN: 1549-3636.

Amanda Raquel Pinto , Dhanushree K R, Hithesh K, Noel Jose Paul of 7th semester published paper titled "Multifunctional AI-enabled Agricultural Rover" in Journal of Computer Science, volume 18 issue:11, 25/11/ 2025, ISSN: 1549-3636.

D G Chiranth, Darshan G P, Vathsa S of 7th semester published paper titled "Implementation Of Accident Prevention System Using Deep Learning" in International Journal of Creative Research Thoughts, volume 13 issue:11, 25/11/ 2025, ISSN: 2320-2882.

Bhumika M S, Devika G M, Inchara B M, Mayur V Varchasvi published paper titled "Voice Controlled and Obstacles Detection Robotic Vehicle" in International Journal for Research in Applied Science & Engineering Technology ,volume 13 issue:7, July 2025, ISSN: 2321-9653.