



JANSONS INSTITUTE OF TECHNOLOGY

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An ISO 9001:2019 Certified Institution



TECHNOVA - 2

Jan 2019 to June 2019

VISION

To produce skilled and competent engineering professional in the field of Electronics and Communication.



MISSION

Equip students with technical skills to meet current demands in the electronics industry
Cultivate ethical and moral qualities to address societal needs.

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Workshop

- A guest lecture on "Recent Trends in VLSI Technologies" was conducted on January 5, 2019, with Mr. D. Ramesh from Chipcraft Solutions, Coimbatore, as the resource person. The event was coordinated by Mr. G. Myilsamy and included one session. The participants were third-year students from Jansons Institute of Technology.
- A one-day workshop on "Line Follower Robot" was conducted on January 30, 2019, coordinated by Mr. G. Myilsamy. The workshop included one session and was attended by external participants at Jansons Institute of Technology.
- A Spoken Tutorial Workshop on SCILAB was conducted on June 19, 2018, under the QIC Cell. The workshop included one session and had 23 participants from Jansons Institute of Technology.
- A Spoken Tutorial Workshop on C Programming for ECE students was conducted on January 31, 2019, under the QIC Cell. The workshop included one session and had 70 participants from Jansons Institute of Technology.

Industrial/Field Visit

A group of final-year B.E. Electronics and Communication Engineering (ECE) students visited ACE Components, a leading manufacturer of electronic components in Mysore, for an industrial visit from February 28, 2019, to March 2, 2019. The visit was coordinated by Mr. S.P. Prakash and was accompanied by faculty members Mrs. N. Krishnapriya and Mr. B.V. Vinoth Kumar. The objective of the visit was to provide students with practical insights into the manufacturing processes of electronic components and to enhance their understanding of industry operations. During the visit, students had the opportunity to observe various stages of production, interact with industry experts, and gain valuable knowledge about the latest advancements in electronic component manufacturing. This experience helped bridge the gap between theoretical learning and real-world applications, preparing students for future career opportunities in the field of electronics.



Paper/Project Presentation

Suvedharan M, a third-year ECE student, participated in the *Student Professional Awareness Conference* organized by the *IEEE Student Branch, SSN College of Engineering, on **January 5, 2019*. The event provided valuable insights into professional development, and Suvedharan M actively participated in the conference.

Madheswari S, a second-year ECE student, participated in *ARDRA 2K19, a **National Level Techno-Cultural Fest* organized by *Kongu Engineering College* on *February 8, 2019*. The event provided a platform for showcasing technical and cultural talents, and Madheswari S actively took part in the fest.

A *Spoken Tutorial C-Training* program was conducted by the *QIC Cell, Jansons Institute of Technology, on **February 2, 2019. The following third-year ECE students successfully participated and passed the online exam: **Nishalini R, Abirami N, Revathi R, Gomathi R, Mahalakshmi S, Ramalakshmi V, Gokulvani M, Harsha H, and Kiruthika K*.

Shofiya Fahima, a second-year ECE student, participated in the *Spoken Tutorial C-Training* conducted by the *QIC Cell, Jansons Institute of Technology, on **February 2, 2019*, and successfully passed the online exam.

Ramalakshmi V, a third-year ECE student, participated in *TEXPERIA 2018-2019, a **National Level Technical Symposium* organized by *SNS College of Technology* on *February 27 and 28, 2019*. The event provided a platform for students to showcase their technical skills and knowledge

Kavishree, Vedha Vikashini, R. Umapriya, and S. Sasmitha, second-year ECE students, successfully completed the *NPTEL Exam on "Introduction to Internet of Things"* conducted by the *NPTEL Local Chapter* in *April 2019. All four students achieved the **Elite+Gold* certification for their outstanding performance.

Varshini M, a second-year ECE student, successfully completed the *NPTEL Exam on "Principles of Communication Systems - I"* conducted by the *NPTEL Local Chapter* in *April 2019* and earned the *Elite* certification.

A group of final-year ECE students participated in the *Eighth National Conference on Emerging Trends in Computer Communication and Informatics, organized by **Tamilnadu College of Engineering* on *March 8, 2019. They actively took part in the conference, gaining insights into emerging trends in computer communication and informatics.

A group of final-year ECE students participated in the *3rd International Conference on Advances in Science, Engineering, and Management 2K19, organized by **Jai Shri Ram College of Engineering* on *March 7, 2019. They actively engaged in the conference, enhancing their knowledge in the latest advancements in science, engineering, and management.

Anupriya M, Harsha H, Haresh G, and Ravirajan AAB, third-year ECE students, participated in the *National Conference on Communication, Computing, and System Design* organized by *PSG Institute of Technology and Applied Research* on *March 19, 2019*. The conference provided them with valuable insights into the latest developments in communication and computing technologies.

Publication By Faculty Members

1. *P. Gowtham (AP)* presented a paper titled *"Dust Collector Robot for NHAI"* in the *International Journal of Trend in Research and Development*.

2. *S. Saravanan (AP)* published a paper titled *"Down Time Reduction in Furniture Industry"* in the *International Journal of Trend in Research and Development*.

3. *P. Sivamani (AP)* presented a paper titled *"IoT-Based Pill Dispenser"* at the *Eighth National Conference on Emerging Trends in Computer Communication and Informatics, organized by **Tamilnadu College of Engineering**.

4. *N. Krishnapriya (AP)* presented a paper titled *"Automated Energy Monitoring System for Smart Homes"* at the *Eighth National Conference on Emerging Trends in Computer Communication and Informatics, organized by **Tamilnadu College of Engineering**.

5. *G. Myilsamy (AP)* presented a paper titled *"A Low-Cost Public Transport Information System for Vision Impaired People"* at the *Eighth National Conference on Emerging Trends in Computer Communication and Informatics, organized by **Tamilnadu College of Engineering**.

6. *Dr. G. Vetricelvi (Professor)* published a paper titled *"C-SEY-Smart Door Lock System"* in the *International Organization of Scientific Research - Journal of Engineering*.

7. *Mr. C. Shanmugam (AP)* presented a paper titled *"Surveillance Robot Using Microcontroller ESP 8266"* at the *3rd International Conference on Advances in Science, Engineering and Management 2K19, organized by **Jai Shri Ram College of Engineering**.

Value Added Programs

These courses provided students with hands-on experience in PCB design, MATLAB simulation, and network simulation, enhancing their technical skills and practical knowledge

- *II Year (2017-2021) (ODD)* – *IRC on "Design of Printed Circuit Board (PCB) using EDA Tools"* conducted by *Jansons Institute of Technology*.
- *III Year (2016-2020) (ODD)* – *IRC on "Simulink Modelling using MATLAB"* conducted by *Jansons Institute of Technology*.
- *IV Year (2015-2019) (ODD)* – *IRC on "Network Simulation using NS3"* conducted by *Jansons Institute of Technology*.



Program Outcomes

- ✓ Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
 - ✓ Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
 - ✓ Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
 - ✓ Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
 - ✓ Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
 - ✓ The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
 - ✓ Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
 - ✓ Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
 - ✓ Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
 - ✓ Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these