



SARANATHAN COLLEGE OF ENGINEERING



**From the Desk of Secretary
Shri S. Ravindran**

I am glad to know that the Department of Information Technology of our institution is bringing out a Newsletter.

Besides being a compilation of the events that took place in the department, it would be good if the Newsletter provides a platform for knowledge transformation among the faculty and the students.

I wish the venture all success.



**From the Desk of Principal
Dr. D. Valavan**

Being distinctive in delivering education for more than a decade, Department of Information Technology, Saranathan College of Engineering is perpetually imparting knowledge to Information Technology aspirants for meeting new challenges which they face in Corporate Arena. Our distinguished Faculty members are transforming the Knowledge with our traditional values systems and culture. Not only in academics, also educating the Information Technology professionals to be ethical in their work which helps them to sustain the Corporate Governance



Very happy that the Department of Information Technology is bringing out a Newsletter covering the activities for the second half of 2016 which will give a nutshell about the progress of the department in one fold. I wish the department and editorial team for their efforts. Also I wish them to take the department to greater heights by enhancing the skills of the students even sharper.

**From the Desk of Director
Prof.V.Nagarajan**

I am glad to know that the Department of Information Technology of our institution is bringing out a Newsletter covering the activities conducted in the Department during the academic year.

I presume that all the activities were planned and conducted on „outcome based criteria. It would be good if this outcome, the follow up action taken and the effectively of the follow up action are also covered in the Newsletter instead of a chronological coverage of the activities.



I wish the venture all success.

**From the Desk of Head–Information
Technology
Dr. R. Sumathi**

I take immense pleasure in bringing out the newsletter of Department of Information Technology for the period Dec-Mar 2016. Our Department is stepping its foot in 19th Year and ultimately it is a Jubilation to the institute. Thanks to the tireless efforts of eminent faculty members and Management. At this Juncture I need to cite one important personality, it's none other than, Our Founder Secretary VidhyaSevaRatnam K.Santhanam who laid such a strong foundation in the field of Education and especially his love towards Management Education is noteworthy.



The Applause goes to the editorial team and I wish them to bring out the news bulletin every year. Many more Programs, Seminars, Conferences and Workshops are on the way to shape the Students community and I am sure that so many stuffs will occupy the bulletin(s) of the forthcoming edition. I gladly thank our Secretary Shri S.Ravindran for his unstinted support in all the avenues of our growth.



This newsletter is a summary of the events and accomplishments of the Department of Information Technology in the second half of 2016. Notwithstanding the ephemeral nature of the events, their outcomes are bound to be eternal and fruitful for everyone concerned. It is an attempt to pen down such memories so as to re-live the moments and eternalize them.

Wish to continue penning down many more such events and accomplishments in the years to come that are organized to realize the outcomes of improved knowledge and skills for the students, the faculty members and the improvement in the academic quality of the institution.

Saranathan College of Engineering was established in 1998. It was born out of a thirsting desire of our Founder Secretary Shri K. Santhanam to venture in the field of Technical Education. The college was named after a great educationist Shri Saranathan, who had the privilege of being the Principal of National College, Trichy for 26 years.

The College is the outcome almost entirely of the tireless efforts of Shri K.Santhanam, Secretary.



Shri K. Santhanam was a leading chartered accountant and a close associate of former President Shri R. Venkataraman. In recognition of his service to the cause of education, he was conferred the title „Vidya Seva Ratnam“ by Maha Periyava of Kanchi Kamakoti Peetam.

The setting up and nurturing of Shrimati Indira Gandhi College and Saranathan College of Engineering is precisely the contribution of “Vidya Seva Ratnam”, “Guru Seva Mani” Auditor Shri K. Santhanam. Shri K. Santhanam was also the uncontested secretary of the National College Council for 30 years. He stands unparalleled as an Educational Administrator.

The Department of Information Technology was established in the year 2001. It offers undergraduate programme in Information Technology. Our Mission is to provide quality education to the students and impart IT excellence in them. We also provide individual attention to make them good citizens of our nation to serve the industry and society.

Drawing upon Saranathan tradition of teaching excellence, the Department works with a cohesive team of 12 faculty members and 243 students. To keep in touch with the ever growing technology, the faculty members participate regularly in refresher course and symposia conducted by various universities and research institutions.

With Anna University's curriculum, the Department places equal emphasis on both theoretical and practical courses. The Department has the state-of-the-art facilities for various labs, well equipped Seminar hall, lecture rooms, tutorial hall and facilities to support e-learning and a Department library.

Vision of the Institution

Impart an inclusive engineering education that beyond being a facilitator for a career and rudimentary skills, equips the students to offer ethically & environmentally conscious solutions to societal issues.

Mission of the Institution

Develop the Institution into a Model Self Financing College of Engineering and Technology. Professional Training to our students with State of the art Laboratories and converting them into Technocrats of international repute.

1. Create a nurturing, holistic environment of engineering education to facilitate every student realize their full potential
2. Strive to make the students strong in basic concepts armed with appropriate skills to enhance one's ability to apply the knowledge to provide solutions to real time issues.
3. Maintain an ambience that facilitates the students to strengthen their ethical value systems.
4. Actively promote R&D and institute-industry interaction.

Vision of the Department:

To provide value based higher education in the field of Information Technology, enhance the potential of students in engineering education, innovations, entrepreneurship and provide resources to groom students as globally acknowledged IT professionals.

Mission of the Department:

- To produce quality engineers by providing state of the art engineering education effectively through highly qualified and competent faculty and best-in-class infrastructure
- To inculcate a high regard for ethical principles and an understanding of human and environmental realities through student centric learning methodologies.
- To encourage continuous learning and to impart personality development skills to succeed and lead in all areas.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1: To provide students with a strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, design, solve and analyze engineering problems.

PEO2: To provide exposure to emerging cutting edge technologies, adequate training & opportunities to work as teams on multidisciplinary projects with effective communication skills and leadership qualities.

PEO3: To prepare the students for a successful career and work with values & social concerns bridging the digital divide and meeting the requirements of the Corporate Industries

PEO4: To promote student awareness on life-long learning and to introduce them to professional ethics and codes of professional practice.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.
4. **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.
5. **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.
6. **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.
7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes PSO

PSO1: Graduates will be able to design, develop, test and maintain software systems with the latest tools in the fields of IT.

PSO2: Graduates will be able to apply the knowledge of academic learning to solve real life Engineering problems and find solutions for contemporary issues faced by society at large.

Association Activities:

ACTIVITIES OF FACULTY MEMBERS:

Faculty development Programmes attended:

- Ms.M.PadmaPriya Assistant Professor Workshop-Aptitude on 22.12.2016.
- P.B.Arun Prasad Assistant Professor Workshop on Internet of Things" 2.02.2017 to 3.02.2017.
- Ms.M.PadmaPriya Assistant Professor FDP on 5.05.2017 to 6.05.2017.
- Ms.M.PadmaPriya Assistant Professor FDP-IOT -Flexgen on 2.02.2017 to 3.02.2017.

QIC activities

- The III year students have registered for the Spoken Tutorial JAVA course during January 2017.
- The certification test for the Spoken Tutorial C & C++ Programming course was conducted during January 2017.
- 8 faculty members from IT dept have registered for the Pytrhon course during January 2017.

• ACHIEVEMENTS BY THE STUDENTS:

Students Attended Workshop:

- Latest tools in S/w Testing Demonstration on selenium testing tools on 23-03-2017 Prof.N.Bhavani, Assoc., Prof, SCE.
- Latest Tools Cyber Forensics tools on 20-03-2017 Dr.R.Sumathi, Professor/IT,SCE.