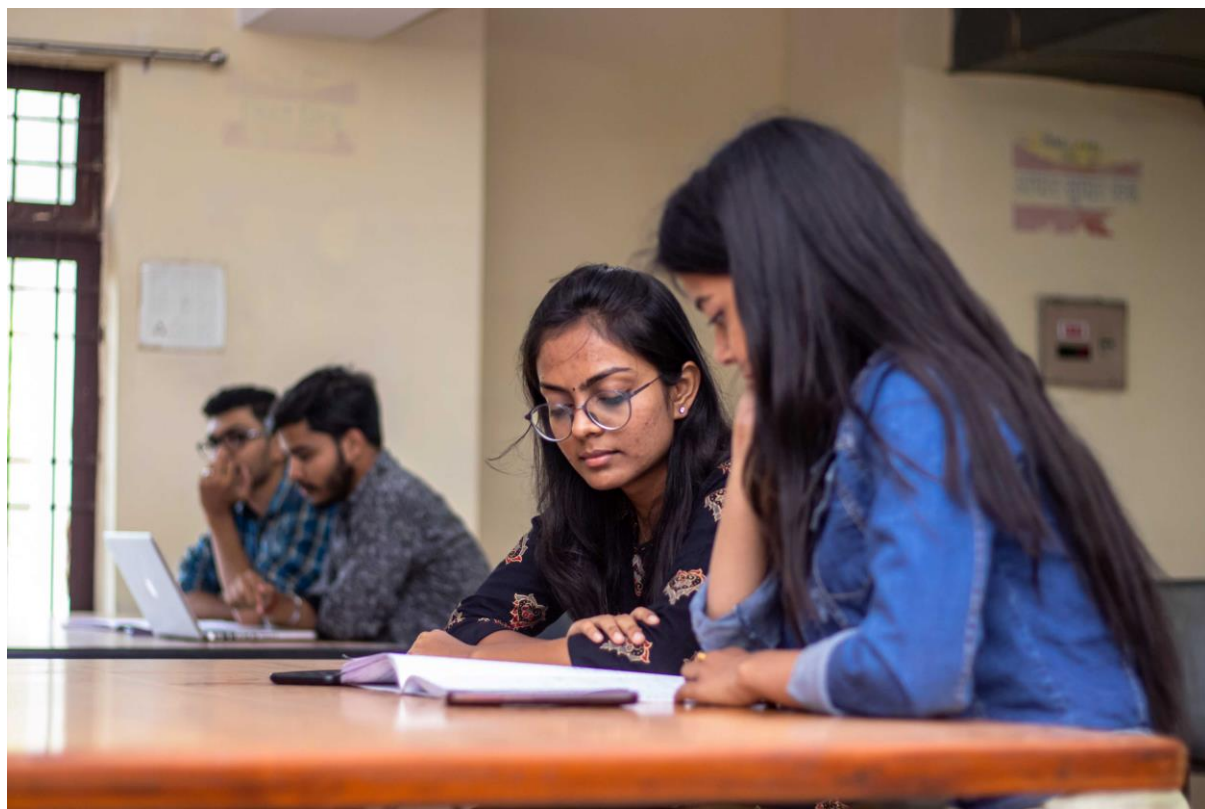*About the Department*

The Department of Information Technology Engineering was established in the year 1999 with the intake of 60 students at Under Graduate level and by 2007 the intake was increased to 120. In 2020 Post Graduate level program with specialization in AI & ML was approved with an intake of 18 students. Department is enriched with highly qualified & professionally skilled Faculty Members having Publications in SCI, SCOPUS Indexed Journals/Books and funded research projects from various agencies. The department haswell equipped, highlyadvanced laboratories and AICTE approved AI & Machine Learning Laboratory, as well CSVTU approved Research Centreand Research Lab with Biometric Software for Finger Print Recognition, ECG, EEG and Face Recognition. Department conducts Certification Programs under Microsoft Imagine Academy and Hewlett Packard Competency. Departmental CSI Student Chapter exists under which various national and international workshop/activities are conducted. Students of the department are very much active in co-curricular and extra-curricular activities such as Hackathon,online certification courses, NSS Unit camp, state and university level sports etc.

- IT Deptt FET of SSTC started in the year 1999 with an initial intake of 60 students and now it has been increased to 120 students.

- PG Courses: M. Tech. in Information Technology with Specialization Artificial Intelligence and Machine Learning.

- Accreditation Status: Information Technology Department accredited three times by National Board of Accreditation in 2007 and 2014 and in 2017 and it's valid up to Academic Year 2022.

Vision

To achieve excellence in education so as to enable students to establish themselves as world-class professionals and empower them with the proficiency and knowledge required to excel in the dynamic field of IT.

Mission

To create and disseminate knowledge through teaching, learning, research and develop leadership, teamwork skills and value of commitment to quality among IT students.

Programme Specific Outcome (PSOs) for U.G. Programme

- To prepare students with a strong foundation in the Mathematical, Scientific and Engineering fundamentals necessary to formulate, solve and analyze engineering problems.

- To develop an ability to analyze the requirements of the software, understand the technical specifications, hence develop efficient IT based product designs.

- Develop knowledge and skill to respond creatively and effectively to local and global challenges by giving them exposure to emerging cutting edge technology, training and opportunity to work as team on multidisciplinary projects.

- To inculcate the right perspective and orientation, ability to relate engineering issues to social contexts, ethical reasoning and effective and fair interaction with others.

- To promote student awareness on lifelong learning by providing academic environment for higher learning and quality research & development, also to introduce them to professional ethics needed for successful career .

Programme Outcome (POs) for U.G. Programme

- **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 to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

- **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.