



St. Francis Institute of Technology

(Engineering College)

Mt. Painsur, S.V.P. Road, Borivali (W), Mumbai 400 103

(Roman Catholic Minority Educational Institute)

DTE Code: EN3204



(Convocation 2017)

2 YEAR FULL TIME M.E. DEGREE COURSES IN

- **Computer Engineering**
 - **Electronics and Telecommunication Engineering**
- ### (PROSPECTUS 2017-2018)

Approved by AICTE & Directorate of Technical Education, Maharashtra
Always advancing in the path of excellence

Permanently Affiliated to the University of Mumbai
Consistently ranked one among the top 05 Engineering Colleges in the University of Mumbai for academic excellence and other achievements.

All Programs at UG Level are NBA Accredited
ISO 9001 certified

SFIT Offers Master of Engineering (ME) & PhD in
Computer Engineering and Electronics & Telecommunication Engineering

Developing Quality Technical Educators

Part – I: About the Institute

1. Society and Institute

Ever since the Indian Government stepped up its focus on the development of independent, indigenous institutes of science and technology, there has been a growth of such centers of learning all over the country. As a technology base was being created, it became increasingly clear that the nation required simultaneously augmenting technological talent and resources on a war footing, a response that led to the establishment of St. Francis Institute of Technology (SFIT). Thus, SFIT was established in the year 1999-2000 with a view to fulfill a long felt public need for an excellent engineering institute in Mumbai and Borivli in particular. SFIT is run by “The Society of the Congregation of Franciscan Brothers”, an international society of Religious Brothers founded by Bro. Paulus Moritz in 1901 and registered as a Public Charitable Trust.

The institute achieves its mission through uniquely structured programs, upgraded from time to time. SFIT has well-designed and constantly reviewed programs to develop leaders and entrepreneurs, with the requisite skills and competencies to succeed in the global industry. These carefully designed programs are grounded in the excellence of the faculty, the efficacy of the pedagogy, the vast diversity of the technological community, whose expertise and experience we draw from, and the extensive perspective of the institute’s board of trustees.

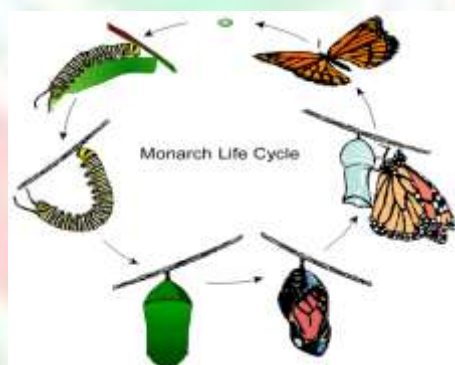
SFIT has been granted permanent affiliation by the University of Mumbai from the academic year 2015-16 and is approved by AICTE, Govt. of Maharashtra & Directorate of Technical Education. All the programs at UG Level are NBA Accredited and also ISO 9001 certified. It consistently ranks among top 05 engineering colleges in the University for its Academic Excellence and other achievements.

2. The Campus

Set over five acres of sylvan surroundings, SFIT is situated in Borivli West. The portals of this hallowed centre of technological learning comprise of facilities fully equipped with all the latest state-of-the-art technological infrastructure, encircled by lush verdant surroundings and landscaped gardens. A perfect setting for a rich milieu of both formal and informal activities! The institute’s distance from the city centre, though well connected, gives it the added advantage of a peaceful setting.

3. Our Vision

“To be a chrysalis where bright youngsters are transformed into technological entrepreneurs and innovative leaders of tomorrow’s world, consistent with the Franciscan vision of integrity, peace and love.”



4. Our Mission

“To continually improve and progress in the path of developing post graduate scholars who will be competent in exploring, developing and disseminating new knowledge in their areas of specialization so that the repository of new knowledge and innovation and its dissemination will be enhanced in scope of effectiveness.”

5. Our Quality Policy

“To be the most preferred Institute of Engineering & Technology equipped with state-of-the-art facilities, to develop technically qualified techno-entrepreneurial class of value based global industry leaders, imparting comprehensive technical education, through highly competent and dedicated staff, ensuring continual improvement of QMS processes, meeting ISO 9001-2008 statutory & regulatory requirements.”

6. Minority Status

SFIT is a private, un-aided, self-financing, Religious (Christian - Roman Catholic) Minority Educational Institute. The Govt. of India, National Commission for Minority Educational Institutions was pleased to declare in September 2006 that St. Francis Institute of Technology (Engineering College) ‘is exclusively a Minority Educational Institution’ within the meaning of Section 2(g) of the National Commission for Minority Educational Institutions Act 2004, covered under article 30 of the Constitution of India.

7. Academic Achievements at PG (ME) Level

In the Final Year M.E. examination held in May/June 2015 the college secured,

- 81.74% in Computer Engineering
- 73.48% in Electronics & Telecommunication Engineering

8. Academic Achievements at UG (BE) Level

In the Final Year B.E. examination held in May/June 2016 the college secured,

- 98.61% in Information Technology
- 98.05% in Computer Engineering
- 99.31% in Electronics & Telecommunication Engineering

9. Training & Placement at UG (BE) Level

SFIT has full-fledged Training & Placement service with a full-time well experienced team, whose objective is to impart and develop professional as well as technical skills in our students, to make them highly competent engineers so as to deliver best performance in industry and the corporate world.

Our Placement systems provide ongoing opportunity to students to undergo extensive training, employability skills, briefing by industry experts, training in soft skills, basic technical practices, aptitude tests, group discussions etc. on regular basis. We invite technical experts from reputed industries, professionals and business entrepreneurs to transform students to live & current industry scenario and exposure. We also give career guidance to our students. The Training and Placement team motivates the students by providing necessary road map, counselling and guidance regarding job potential, personality development, and briefing about corporate sectors / industry practices.

Companies like TCS, LARSEN & TOUBRO, CAPGEMINI, TECH MAHINDRA, CLOUD FRONT, RELIANCE JIO, CRIMSON, MACSOFT, GODREJ, HEXAWARE, ORACLE, POLARIS, TPG etc., to name a few that visited the college for campus placement. For the academic year 2015-2016, 61 companies have visited the college and 94% of eligible students are already placed through the institute. Apart from regular placements in reputed companies, a few SFIT students have established their own startups.

9. Details of Academic Programmes

9.1 Department of Computer Engineering

Department Vision: The vision of computer science program at SFIT is to continuously improve its educational environment to nurture future technological entrepreneurs and researchers, with strong emphasis on ethics and professional code of conduct.

Department Mission:

- To produce quality computer science professionals with sound conceptual and practical skills, having a sense of social awareness and responsibility.
- To inculcate amongst the graduates a knack of lifelong learning and critical thinking, leading to generation of new knowledge and its dissemination, through innovative research and development.

Programmes offered:

Doctor of Philosophy (Ph.D.) - 10 seats

2- Year full time Master of Engineering (M.E.) - 18 seats

4- Year full time Bachelor of Engineering (B.E.) - 120 seats

Program Educational Objectives (PEOs):

- To prepare the students for successful professional careers in IT industry and higher studies by training them to adapt to the evolving technologies leading to excellence by providing strong fundamentals of mathematical, computing and engineering principles.
- To provide an environment for students to work on multidisciplinary aspects of computer science to enhance their coordination and communication skills along with their team building capabilities like leadership, motivation and teamwork throughout their professional life.
- To inculcate among students entrepreneurial skills, introduce them to professional ethics and codes of professional practice and create a sense of social awareness and responsibility in them.
- To provide students experience with the multifaceted aspects of using computers along with developing an eagerness for lifelong learning and adapting new knowledge for problem solving and develop professional application software(s) for some industry/society requirements by applying strong software engineering principles.

Program Specific Outcomes (PSOs):

- Graduates will be able to apply analytical skills to identify a problem and generate alternate solutions. They will be able to design the same by selecting appropriate Data Structures and Algorithms and implement them using structured and/or Object Oriented Programming skills along with advanced tools and techniques.
- Graduates will be able to analyze and design analog and digital systems meeting desired needs using both hardware and software components.
- Graduates will be able to apply effective communication skills and demonstrate professional and ethical skills to execute social responsibilities. They will be broadly educated to have an understanding of the impact of engineering solutions towards the environment and exhibit awareness on contemporary issues.
- Graduates will be able to identify and solve real time problems in distributed and interconnected environments by learning and adapting advanced concepts. They will be able to coordinate efficiently in teamwork with a strong entrepreneurial approach.
- Graduates will apply knowledge of applied mathematics, applied physics, applied chemistry, engineering drawing and mechanics, basic workshop practices, basic electronics and fundamentals of Computer Engineering in real time applications.

9.2 Department of Electronics & Telecommunication Engineering

Department Vision:

To become a center of excellence globally in the field of Electronics & Telecommunication where teamwork, innovation and research are encouraged to nurture and develop graduates and post graduates with strong academic foundation and an all-round personality with ethical values.

Department Mission:

- To impart quality technical education and expose the students to the state of art technologies in the field of Electronics & Telecommunication Engineering.
- To imbibe ethical and professional values, to inculcate the quest for higher learning and an aptitude for research for global competency.
- To develop entrepreneurial skills amongst students to cater to the challenges of industry and society.
- To motivate the students towards research leading to multidisciplinary innovative projects.

Programmes offered:

Doctor of Philosophy (Ph.D.) – 10 seats
2- Year full time Master of Engineering (M.E.) – 18 seats
4- Year full time Bachelor of Engineering (B.E.) – 120 seats

Program Educational Objectives (PEOs)

- To impart solid foundation of applied mathematics and sciences along with the fundamentals of electronics and telecommunication engineering for sustained contribution in their professional life.
- To help students stay updated with the emerging technologies and to provide them with an opportunity to actively participate in professional communities to enhance professional as well as team-building skills and nourish ever-developing careers.
- To prepare students to be employable for successful careers and/or pursue higher studies and to promote student inclination for life-long learning in order to contribute to industry, research and society.
- To introduce students to the ethics and codes of professional conduct, help them embrace cultural, societal, environmental and ethical issues in their work to fulfil their professional responsibilities towards themselves, peers, employers, and local and global communities.

Program Specific Outcomes (PSOs)

- Graduates will be able to demonstrate knowledge of mathematics, applied sciences, electronics, communication and multidisciplinary subjects.
- Graduates will be able to perform literature survey, identify the problem and analyze it.
- Graduates will be able to design and develop solutions for engineering problems with the aid of modern engineering simulation software tools and verify by hardware experimentation.
- Graduates will be able to exhibit professional engineering values and ethics in understanding and assessing contemporary issues of the society.
- Graduates will be able to understand the impact of engineering solutions in a global, economic, environmental, engineering and social context.
- Graduates will be able to contribute individually and apply engineering as well as managerial skills in multidisciplinary teams to achieve the organization's objectives.
- Graduates will be able to represent the solution to a problem in the form of reports or presentations.

- Graduates will be able to apply the skills necessary for research, higher studies and continually update one's knowledge.

9.3 Department of Information Technology

Department Vision:

To create a conducive instrument for transforming the enrolled potential fresher into competent Information Technology professional or entrepreneur with integrity and ethical value.

Department Mission:

- To become unit of excellence in teaching, training, research, innovative application and extension work in IT in co-operation with various other departments.
- To make knowledge and expertise accessible with various dissemination strategies, including networking with research unit, colleges, government and industry along with the motivation for self-learning.
- To integrate teaching, research and practice along with higher education for generation and application of knowledge in line with emerging needs of industry, technical quality with market driven professional pursuits, programs, courses, collaboration.
- To develop entrepreneur skills along with ethical and professional values among the students.

Program Offered

4- Year full time Bachelor of Engineering (B.E.) – 120 seats

Program Educational Objectives (PEOs)

- To provide students with a sound foundation in mathematical, scientific and engineering fundamentals to analyze and solve engineering problems and design as well as develop solutions for complex engineering problems and develop quest for higher education.
- To provide an environment for students to work in multi-disciplinary projects to solve the real life problems with the help of modern tools and techniques all through their professional life.
- To analyze and synthesize the information and also to work as part of different teams to enhance team building capabilities like leadership skills, managerial skills etc. for a successful professional career.
- To inculcate in students, a professional and ethical attitude and commitment, by imparting training in effective communication and technological entrepreneurial skills and to develop the ability to relate engineering issues to the broad social context and to understand social responsibilities and need for sustainable development through lifelong learning

Program Specific Outcomes (PSOs)

- To comprehend the basic knowledge of analysis and design based on the principles of software engineering, project planning and management, software testing & quality assurance and object oriented methodology.
- To apply research based approach using innovative tools and techniques in the field of communication and networks, operating systems, security techniques and database management to deliver quality results and valid conclusions.
- To be able to apply the knowledge of information technology to develop applications in the field of E & M-commerce in addition to understanding applications of simulation & modelling and use of artificial intelligence for sustainable development relevant to society and environment.
- Graduates will be able to secure employment or be an entrepreneur and apply the knowledge and understanding of the engineering and technological principles while portraying competencies like teamwork, effective verbal and written communication skills and a zeal for lifelong self-learning with ethical responsibility.

Program Outcomes (POs) common to all the 3 departments as per NBA

The POs formulated for each program must be consistent with the Graduate Attributes mentioned in Washington Accord. Graduates Attributes (GAs) form a set of individually assessable outcomes that are the components indicative of the graduate's potential to acquire competence to practice at the appropriate level. The GAs is exemplars of the attributes expected of a graduate of an accredited program. The Graduate Attributes of the NBA are as following:

I. Engineering knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.

II. Problem analysis:

Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

III. 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 public health and safety, and cultural, societal, and environmental considerations.

IV. 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.

V. Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.

VI. 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.

VII. 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.

VIII. Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

IX. Individual and team work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary settings.

X. Communication:

Communicate effectively on complex engineering activities with the engineering community and with the 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.

XI. 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.

XII. 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. Graduates will be able to secure employment or be an entrepreneur with ability to apply professional knowledge with ethical responsibility.

10. Applied Research, Institutional R&D and Entrepreneurship

10.1 Research & Development (R&D) Cell

R&D Cell is a body which consists of Principal and the Senior Faculty Members in various disciplines which is responsible for the R&D activities in the institute.

Purpose

To encourage research and development activities among faculty members and students so as to integrate research with academic leading to industrial consultancies, extension work and long term development of intellectual capital and dissemination of knowledge. This also helps the students to be confident to become future entrepreneurs or starts up owners.

Broad Objectives:

- To conduct applied research and institutional research and development through effective participation of teaching faculty & students to up-grade their knowledge as well as contribute to the growth of the institute.
- To promote Research and Development activities at SFIT for the technological up-gradation of staff and students leading to revenue generation for the institute.
- To be a centre of innovation to nurture young minds, both staff and students, for all round development of the Institute, to become one of the finest engineering institutes in the Country.
- To enhance SFIT brand image in the market by doing real research work.

Under **Academic Research**, which includes paper publications, lecture series, the R&D Cell continues to publish '**Sanshodhan**', a technical Magazine containing research articles from staff and students of the college every year. R&D lecture series is being organized on a regular basis for the benefit of our teachers / students to upgrade their technical knowledge and latest technological developments. The lectures covering the latest innovations and developments in the respective fields are conducted by experts from outside as well as by our own teachers. ISTE approved Short term Training Programs, National / International Conferences, in - house workshops etc. are being organized by our faculty in the college on a regular basis.

10.2 Entrepreneurship Cell (E-Cell)/ Start-ups

The E-Cell was constituted in SFIT in the early part of the year 2013 to develop entrepreneurial zeal among the students in keeping with the 'Vision' of the college, on a continuous basis and prepare them to undertake independent technology development or self-employment during the course of their work life. Thus the E-Cell strives to develop necessary knowledge among SFIT students for an entrepreneurial career so that they assimilate adequate skills in the total project management area of an enterprise and acquire a drive or motivation to pursue self-employment inspired by self-actualization in spite of the elements of the hardship and risk involved in it.

E-Cell activities are carried out and monitored by a committee consisting of both staff and students. The student committee comprises of some of the talented students of St. Francis Institute of Technology (SFIT) can boast of. E-Cell in conjunction with the National Entrepreneurship Network (NEN) provides a platform for industry-student/faculty interaction. SFIT has been empaneled under the Pradhan Mantri Yuva Yojna, under which we will become a center for Entrepreneurship education courses to SFIT Students and to the surrounding communities. A number of activities are conducted like E-Cell Day, workshops for students on teamwork, making the best use of available resources, out-of-the-box thinking etc. Motivational talks are given to the students by young entrepreneurs some of whom have managed a complete shift from career in industry to start their own companies which gives them the freedom to do what one is passionate about. Inspirational talks are also given by students who have started their own ventures even before completing their degrees.

The following start-ups have been set up by SFIT Alumni as well current students:

- **By Alumni:**
 - BigBooks (Rahul Maskara 2003)
 - Think Out Loud (Gaurav Karkhanis 2003)
 - Iris Technologies (Sandeep Kute 2003)
 - Pro Launchpad (Gaurav Bhosale 2003)
 - Monsoon Dance (Shruti Anand, 2003)
 - The Grapevine (Jeet Mehta, 2015)
 - Bloomin Salon (Chris Jose 2012, Aneesha Jose 2015)
 - Styledge (Naomi Leon, Aaqyl Chagla 2015)
 - WEQ Corporation (2015)
 - Servesy (Suraj Dubey, 2015)
 - Cakemperos (Yash Gokhale, Sania Furtado, 2016)
 - Royal Neshar (Jessline 2016)
 - Giftitions (Shiny 2017)
- **By current students:**
 - Fullondesi (Suresh Paikrao, 2016)
 - Come Alive Cards (Anuj Potdar, Mithali, 2017)

10.3 "Pragati" – Technical Project Competition

The E-Cell at SFIT for the very first time organized 'Pragati', a technical project competition, which was held in the month of March 2017. It is intended to be an annual innovation competition where the participants will get a chance to showcase their exceptional technical abilities. Students from different disciplines will be competing with each other by creating innovative projects which would benefit the society. It is purely designed for second, third and final year students. **Pragati 2017** was a grand success.



Pragati 2017

10.4 Robotics and Automation Development Lab (RADLAB)

RadLab is a latest addition to the innovation drive at SFIT. A talented bunch of students who are members of the RadLab guided by experienced faculty members constantly identify real world problems and strive to come up with indigenous, innovative and cost effective solutions for the same. RadLab strongly believes in team work which reflects in the approach towards any problem. At RadLab the team members emphasize on brain storming on multiple aspects of an idea or a design problem and encourage everyone to come up with their own ideas and designs. They are a bunch of really motivated individuals working in teams to solve some real world problems and add value to the society.

10.5 E-Yantra Robotics Competition (e-YRC), 2016-17

'E-Yantra' is a pan India robotics competition designed for undergraduate engineering students from all streams. It is organized by IIT Bombay and funded by the Government of India (MHRD SPONSORED). In the first round students are eliminated based on an examination conducted online consisting of basics of all streams of engineering as well as logical questions. Every year SFIT students take part in this prestigious competition. This year 2016-17 four teams from SFIT got selected out of which three teams were given the topic 'Bothoven' and fourth team was given the topic 'Balance Bot'. The entire competition was divided into various stages and marks were awarded for each stage. The theme 'Bothoven' was highly challenging and required the teams to learn about Digital Signal Processing and Audio Processing whereas the theme 'Balance Bot' gave wide exposure and experience in robotics and embedded systems. During the course of the competition they had the opportunity to learn many new concepts such as coding an ATmega micro-controller, learning how to program a firebird robot, building a bot which runs on two wheels (balancing bot), digital signal processing, interfacing various sensors such as the sharp sensor, line sensor, accelerometer, gyroscope etc. Overall they scored respectable marks in all the tasks that were submitted.

10.6 Robocon 2017

The SFIT ROBOCON team participated in the National Robotics Competition ABU-ROBOCON 2017, held at Balewadi Sports Complex in Pune from 3rd of March to 5th of March 2017. The theme for Robocon 2017 was "ASOBI: The Flying Disc.". With tremendous increase in participation, 116 teams competed for the title this year. This was the 10th year of SFIT's participation in this prestigious competition, being one of the 11 colleges from Mumbai and the team showed their finest performance by giving a tough competition and have been ranked **43rd** amongst 116 teams. Participating in Robocon 2017 was an immense learning experience for all of them. By far, the most important realization for the team was "learning what to learn" and "knowing where to improve" and aim towards having a much more successful run in Robocon 2018.

10.7 IT Colloquium 2017

The Information Technology department successfully conducted 2nd two-day colloquium "I.T. for Society" on 20th and 21st January 2017. The program was aimed at familiarizing the participants with applications of I.T. in various domains and stimulating their minds towards problem solving using latest internet and communication technologies. There were around 400+ participants consisting of S.E., T.E. and B.E. students as well as faculties from the Department of Information Technology. At the colloquium, the attendees got an opportunity to listen and interact with the renowned experts from industry and academia. The competition received good response from student community and total 72 entries were received for poster competition while 12 entries for paper presentation.

10.8 "Code-X"

Computer Engineering Department inaugurated a new association for Students, named "Code-X" to develop and improve the Programming, Analytical and Design Skill Sets of students. Code-X is an initiative for making our students to understand technical proficiency while in the college and give an edge over others, since in a fast changing environment, the computer professionals constantly need to update their knowledge and skills. Its objective is to form competitive coders, enhance scientific knowledge and to develop Analytical and Logical Mindset and Coding Environment among the SFIT students and also, to inspire them to achieve a rank in ACM-ICPC.

10.9 "Prayas 2017" - Science and Technology Project Exhibition.

A third consecutive year of the event, PRAYAS was commenced in 2015 with a view to allow the FE students to implement their knowledge from the FE syllabus into practical applications. The event was divided into two phases which included the poster presentation competition and the project exhibition. The poster presentation competition was held on 2nd February 2017 and the exhibition took place on 1st March 2017. An addition to this year's PRAYAS was that parents of participants were invited to visit the exhibition. Collectively, 16 groups had participated in the poster presentation competition and ultimately, 14 groups were able to present their projects for the exhibition.



Prayas 2017

10.10 “Technotron”

For the first time in the history of SFIT, ISTE organized a One Day Carnival “TECHNOTRON” on 03rd September 2016. TECHNOTRON consists of various Technical events and Exhibitions displaying Technical Excellence. The events in TECHNOTRON are planned to test Leadership Quality, Management Skills, Technical knowledge, Team building, Pressure Handling, etc. A Carnival filled with awesome fun fair activities, games, challenges, Exhibitions and much more.

10.11 “CSCITA-2017”

SFIT organized the 2nd International Conference on "Communication System, Computing and IT Applications 2017" (CSCITA 2017) on 7 - 8 April, 2017. This Conference aims at bringing together academia and industry to foster research and provide a platform for future collaborations. The conference was technically sponsored by IEEE Bombay Section and University of Mumbai. The conference included keynote speeches, invited talks, technical sessions (oral and poster) from renowned personalities. Original research papers on the tracks related to conference theme were solicited and later submitted to IEEE Xplore® Digital Library.



CSCITA 2017 - DAY 01

CSCITA 2017 - DAY 02



11. Infrastructure Facilities

SFIT has excellent infrastructure facilities such as multimedia- equipped classrooms, state-of-the art laboratories and computer centre, Research, Innovation, Development and Entrepreneurship Cell, Workshop, Language Lab, Learning and Information Resource Centre (Central Library/Department Libraries), student activity rooms, canteen, sports facilities to name a few.

11.1 Learning and Information Resource Centre (The Central Library)

St. Francis Institute of Technology has one of the finest IT-enabled libraries known as the “Learning and Information Resource Centre”, located on the second floor. It plays a vital role in the teaching, learning and research activities of the Institute.



LEARNING AND INFORMATION RESOURCE CENTRE

Learning and Information Resource Centre (LIRC) provides access to print as well digital information in a variety of engineering and allied subject areas. The diverse and ever increasing collection of books encompasses a spectrum of books

on Computers, Information Technology, Electronics, Telecommunication, General Management, Social Sciences, Entrepreneurship and Leisure Reading. It also has a wide and updated collection of Reference Books, Dictionaries, Encyclopedia, and Conference Proceedings. NPTEL Video Lectures, CDs accompanying magazines such as Digit, Electronics for You, Open Source for You, PC Quest are some of the more sought after digital resources.

Our Current Collection is as follows:

Print Resources	Digital Resources
Books (UG) = 25034 Books (PG) = 1135 Journals = 54 Magazines = 21	E Journals = 3 databases CDs = 3037 NPTEL Video Lectures on Intranet
B.E. Project Reports	Soft Copies of old Question Papers
M.E. Dissertations	Soft copies of Syllabi of University of Mumbai
Newspapers = 12	Abstracts of Faculty Publications

The LIRC functions using LibSuite 6.5 version. WebOPAC - Online catalog is available for registered members 24/7 for locating the availability of books, periodicals, CDs and project reports. Reservations for issued books can be placed online using WebOPAC.

"Book Overdue App"- an in-house app by our very own students of TE CMPN - 2015 is available for download on Google PlayStore. It is an excellent facility to notify library users of the books borrowed by them and their return dates.

"DSpace@SFIT" is an Institutional Repository of the Institute's scholarly content such as the abstracts of the publications submitted to the journals, conferences and seminars by the SFIT Community - past and present. This database is a common platform for the researchers and the readers to keep abreast of the latest publications of the faculty and their peers.

"Library Resource Sharing" among the six ACCMI institutes of engineering (XIE - Bandra, DBIT - Kurla, FCRIT - Vashi, FRCRCE - Bandra, SJ CET - Palghar and SFIT - Borivali) is another initiative which would provide access to any of the member institute's library.

Book Bank facility is extended to all the students from FE to BE on a first come first serve basis.

Membership details:

Students - UG (FE to BE)	2 books for 7 days
Students - PG (ME)	3 books for 7 days
Students - PG (PhD)	3 books for 15 days

Alumni Membership is also offered. For details, please contact the library:

Phone Number: 022-28928585; E-Mail ID: sfitlibrary@sfitengg.org

11.2 Department Libraries

Keeping in mind the need for **advanced** technical and research activity specific to each programme, along with continuing education, departments have developed separate departmental libraries, in addition to the Central Library. The department libraries are upgraded every academic year to include changes in the syllabus in the engineering/technology field.

11.3 Reprography & Stationery facilities

The Institute has provided fully equipped reprography facilities in the campus itself, with the latest photocopiers, scanners, printers for photocopies, black & white/colour prints etc. and necessary stationery requirements.

11.4 Laboratories/Research Labs

UG & PG (Research) laboratories: The engineering education programs at SFIT emphasize hands-on-experience of students in labs. Institute labs play a central role in supporting faculty and student research. For these reasons, the institute is committed to developing and maintaining state-of-the-art labs for the use of students and faculty. The Institute has basic and advanced Laboratories at the UG and PG levels, equipped with latest equipment, computers, servers, as well as most modern software to impart practical knowledge as per prescribed syllabus and beyond, to complement classroom learning. Students have access to these excellent facilities, complemented by twenty-four hour Internet connectivity (50 MBPS). The entire college is a Wi-Fi campus for internet use of staff and students. The resources and facilities of all labs provide an efficient and effective support to students in their pursuit of academic excellence.

11.5 Computer Centre

The College has a fully equipped Computer Centre with 80 state-of-the-art computers loaded with latest software.

11.6 Language Lab

Today we live in a digital world blessed with a number of new learning techniques like the Virtual Classroom, Remote Learning System, Interactive Multimedia, etc. In today's competitive world, communication has become language and soft skills. Thus, acquiring communication skills has become a prime requirement. Given this fact, SFIT has taken special care to make sure these needs of our students are well catered to. This is where the Language Lab plays a vital role. Our well-equipped Language Lab with 25 PCs, individual handsets, speakers and all necessary accessories, has the 'Orell - Multimedia Language Lab System' to hone the communication competence of our students.

11.7 Remedial Classes

The College conducts remedial classes for the benefit of weaker students and those who don't fare well in their academics. Such remedial classes are generally held on Saturdays/holidays where individual attention is given to them, as it is not always possible in a normal class set up. Students are strongly encouraged to take maximum benefits from such classes. Further, parents are advised to ensure that their wards attend the remedial classes and continuously monitor their performance for better results.

11.8 Canteen

SFIT has a canteen with adequate facilities for the use of staff & students.

12. Sports, Games and Cultural Activities

The management of SFIT believes in the overall growth and development of each student. For this purpose students are encouraged to participate in outdoor and indoor games and activities like debates, quizzes, theatre, singing, etc. Excellent facilities are provided in the campus for outdoor games like football, volleyball, basketball, badminton etc. as well as for indoor games like table tennis, caroms, etc.

12.1 Mosaic' a technical festival, **'IRIS'** a cultural festival and the college **'Annual Day'** are celebrated every year with great enthusiasm and funfair. Students get an opportunity to showcase their talents under the guidance of the College staff.

12.2 Convocation Day

SFIT every year organizes Convocation Day for the PG & UG Graduates in the college premises. The Graduates dressed in gown are issued their Convocation Certificates during the programme on.

12.3 Interaction with Parents

It's a regular feature in SFIT to organize parents' meeting & brief them about the life at SFIT. During such meetings, engineering academic dynamic and especially all about attendance & exam evaluation systems are explained.

13. Networking with Professional Institutes

In order to bring about professional awareness and competence among our staff and students, the Institute is regularly networking with Professional Institutes such as,

- Computer Society of India (C.S.I.) Wing
- Institution of Electronics and Telecommunication Engineers (I.E.T.E.)
- Institution of Electrical & Electronics Engineers (I. E. E. E.) Wing
- Indian Society for Technical Education' (I. S. T. E.) Wing

14. Information Exchange with IIT, Bombay & DELNET

The Institute has an excellent relationship with IIT, Bombay. Eminent professors from this prestigious institution, in addition to being resource persons in various seminars and conferences, are an important part of our Governing Council, Academic Council and Selection Panel for teaching faculty. Because of excellent infrastructure facilities and faculty support, our Institute is regularly selected as one of the Examination Centres for conducting Joint Entrance Examination (JEE) & Graduate Aptitude Test (GATE) for admission to the IITs as well as Remote Centre (RC) for conducting their training programmes. Even IIT, Kharagpur has selected SFIT as a Remote Centre for hosting their workshops since 2013.

The College has Institutional Annual Membership for DELNET (Developing Library Network) offering benefits such as,

- Inter-Library loan & document delivery services to its member libraries.
- Service as a referral centre that provides reference facilities to participating libraries.
- Access to Union Catalogues and other databases

15. Industry Linkages

Institute has commissioned an 'Industry/ Institute Interaction Cell' linked to Training and Placement, to promote closer interaction with Industry and adjust the academic programs, both in UG and PG, in line with the emerging requirements

of the Industry. SFIT is accredited by Tata Consultancy Services, Infosys and Capgemini for placement of our students. The College has also signed an MOU with Infosys for student training and with Wipro Technologies for faculty training.

SFIT has tied up with IBM under IBM Industry Academia Initiative. Under this initiative, experts / resource persons from IBM conduct workshops, seminars and technical training programs in SFIT to train students and faculty on latest technologies and tools. Students could take up projects which are mentored by IBM experts. The initiative provides opportunities to students to participate in technical competitions in order to refine and display their technical skills.

16. Service to Society

To inculcate social consciousness/social responsibility among our students and staff to reach out to the society at large, the institute has started a separate 'Social Responsibility Cell' from January 2015. From the academic year 2015-16, SFIT has also started 'National Social Service' (NSS) Cell, which is functioning as per the guidelines laid down by the University of Mumbai. It has a motto "Not Me But You". The cell carries various drives throughout the academic year like Cloth donation, Blood donation, Tree plantation, Street Plays, Medical Check-up to name a few. They are also, helping villagers at Bhalivali Village (Virar), for 100% literacy, cleanliness, health and hygiene.



Tree Plantation



Blood Donation Drive



Clean-up Drive

PART - II

Admission Procedure for 2-year full time M.E. courses, academic year 2017-2018

1. Admission Procedure in general

1.1 The qualifying examination for M.E. admissions for the academic year 2017-2018 is positive score in GATE conducted by IIT in respective qualifying branch.

1.2 Minimum **Eligibility Criteria** for applying for admission to M.E. Courses are as prescribed by the Directorate of Technical Education, Maharashtra State. For details kindly refer to D.T.E. website: www.dtemaharashtra.gov.in OR www.mahacet.org and DTE Information Brochure AY 2017-18.

1.3 **Distribution of seats under Minority, Institute Level and CAP** quota are as notified by Directorate of Technical Education (DTE), Maharashtra State, Mumbai.

1.4 Admission procedure under all categories/quota shall be held as per the latest rules notified by Directorate of Technical Education, Maharashtra (DTE) for the academic year 2017-2018. For details kindly refer to D.T.E. website: www.dtemaharashtra.gov.in OR www.mahacet.org and DTE Information Brochure AY 2017-18.

1.5 Minority Admission Procedure

Admissions under Minority Quota for the academic year 2017-2018 shall be carried out by Directorate of Technical Education, Maharashtra. For details refer to D.T.E. website: www.dtemaharashtra.gov.in OR www.mahacet.org and DTE Information Brochure AY 2017-18.

1.6 Admission Procedure for Institutional Quota and vacant seats after CAP

Candidates applying for these seats shall first/ initially registered with the Competent Authority, who shall prepare Merit List of all such applicants, to enable the institutions to give admissions to such applicants on the basis of inter-se merit, as specified by the appropriate authority. For details refer to D.T.E. website: www.dtemaharashtra.gov.in OR www.mahacet.org and DTE Information Brochure AY 2017-18

1.7 Documents to be submitted by **all categories** along with Application Form.

Documents to be attached along with the application form are as mentioned under clause 17 of DTE's Information Brochure AY 2017-18.

2. College Fees

The **Adhoc/ Interim Fee** structure is as approved by the **Fee Regulating Authority** established under Maharashtra Act, 2015. The final fee approved and published by the Fee Regulating Authority for that year shall be the fee payable by the candidate for the Academic Year 2017 -2018. The Adhoc/ Interim Fee for AY 2017-18 is as given below:

Tuition fee & Development fee	116500
University/Exam/Other fees	8355
Total fees	124855

The institute undertakes that if the final fee approved by the Fee Regulating Authority in due course, is less than the interim fee collected, the difference shall be refunded. Similarly, students admitted in Academic Year 2017-2018 will be deemed to have given an undertaking to pay the difference in fee, in case the final fee is more than the interim fee, within the stipulated time as may be notified by the institute.

3. Refund of Tuition, Development and Other Fees

The rules for refund of fees for all categories are as notified by Directorate of Technical Education, Mumbai, and Maharashtra State. (Refer DTE Information Brochure AY 2017-18)

4. M.E. 2nd Year (Semester III & IV)

As per the University of Mumbai, the Post Graduate M.E. program is a 2-year full time course and as such students studying in the 2nd Year (SEM-III & SEM - IV) are required to attend the college to work on their assignments, seminars, project etc. During this period, they will also be given additional inputs, like pedagogical skills, e-learning, ICT and Research Methodology (30 – 40 hours duration).

The College does not permit its II year students to undertake any assignments or jobs outside during the entire term of the course (24 months).

4. General Instructions

4.1 Attendance and Discipline

- Every student must complete, to the satisfaction of the Principal, the courses of study at the College prescribed for such term for the class to which the student belongs. **The student must keep a minimum attendance of three-fourths (75%) of the number of days on which lectures and practicals are held in each term.**
- There will be an examination at the end of each semester. The examinations at the end of semesters I, II, VII and VIII are conducted by the University. The examinations at the end of semesters III, IV, V and VI are conducted by the College on behalf of the University according to the University Rules.
- The SFIT Management along with the parental involvement is committed to a healthy discipline and high academic standards and the students are required to co-operate to maintain the same.
- From placement point of view, today more and more organizations value discipline as one of the critical factor over and above academic performance. Both students and parents are requested to take note of this aspect and co-operate with the College authorities, in the interest of their wards for better placements.

4.2 Prohibition and Prevention of Ragging

As per the Maharashtra Prohibition of Ragging Act 1999 Ragging is strictly prohibited. Further, in view of the directions of the Honourable Supreme Court in SLP No. 24295 of 2006 dated 16-05-2007 and in Civil Appeal number 887 of 2009, dated 08-05-2009 to prohibit, prevent and eliminate the scourge of ragging, in exercise of the powers conferred under section 23 read with section 10 (b), (g), (p) and (g) of AICTE Act, 1987, the All India Council for Technical Education has notified regulation for prevention and prohibition of ragging in AICTE approved technical institutions vide no. 37-3/Legal/AICTE/2009 dated 01.07.2009 available on AICTE web-portal. <<http://www.aicte-india.org/anti.htm>> download. Accordingly, all candidate seeking admission in SFIT are required to submit an "Affidavit" in the prescribed format duly signed by the candidates and parent/ guardian to the effect that they are aware of the law regarding prohibition of ragging as well as the punishments, and that he/she, if found guilty of the offence of ragging, is liable to be punished appropriately, which could even include expulsion from the college.

Students are advised to visit UGC Website www.ugc.ac.in for more information on the regulations regarding ragging in Higher Educational Institutions. The UGC has uploaded 4 short films and one documentary film to counsel students on ill effects of ragging on its website. These films are available on the following link ugc.ac.in/page/Videos-Regarding-Ragging.aspx

Anti-ragging Helpline Members

- Mr. Shamsuddin Khan – Convener CMPN - 9892610746 - shamsuddinkhan@sfitengg.org
- Ms. Prachi Raut INFT – 9819339093 – prachiraut@sfitengg.org
- Mr. Vaqar Ansari EXTC – 9987461239 – vaqar@sfitengg.org
- Ms. Preeti Colaco FE - 9967515014 – preethicolaco@sfitengg.or

4.3 Grievance Redressal Committee

As per AICTE regulations, the college has constituted ‘Grievance Redressal Committee’ consisting senior staff members. The aggrieved party may approach the Committee for the redressal of grievance by giving in writing the grievance to Office Executive (Admission and Student Affairs.) The grievance shall be discussed in the Committee meetings and the Chairman shall communicate its decision in writing to the concerned party.

5.4 Internal Complaints Cell Women Redressal Cell

Complaints from female students including matters related to sexual harassment are handled by ‘Women Redressal Cell’ consisting of staff members.

5.5 Committee for SC/ ST

In compliance with AICTE regulations for the establishment of the Committee for SC/ST (As per the Scheduled Caste and the Scheduled Tribes (prevention of Atrocities) Act, 1989, No. 33 of 1989, dated 11/09/1989) the college has constituted a committee for SC/ ST for staff and students to create and maintain safe, healthy and supportive environment and to address their issues and look into complaints if any.

5.6 Mobile Phones banned in the College Premises

As per Mumbai University’s circular ref. no. UG/552 of 2004 dated 31st December 2004; mobile phones in the College premises are banned. Strict action shall be taken against students found violating this rule by confiscating their mobile phones and imposing a fine.

5.6 Anti-national Activities

Students while studying in any Engineering / Technology Institute, if found indulging in anti-national activities contrary to the provisions of acts and laws enforced by Government from time to time, any activity contrary to rules of discipline are liable to be expelled from the Institute without any notice, by the Principal /Director of the Institute.

5.7 False or Incorrect Information

If any statement/s made in the Application Form or any information supplied by the candidate in connection with his/her admission is found to be false or incorrect at any time, then his/her admission will be cancelled, fees forfeited and he/she may be expelled from the College and prosecuted, if deemed necessary. *(An appeal against the order of expulsion, however, may be referred to the College Academic Council, whose decision in such cases will be final and binding)*

5.8 Kindly visit college website (www.sfitengg.org) for Mandatory Disclosure and for more information about the Institute.
