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Our Institute has received re-accreditation for all the UG programs – CMPN, INFT and ExTC from 2016 to 2018.

CSCITA 2017 on April 7-8, 2017

St. Francis Institute of Technology (SFIT), Borivali(W), Mumbai, India, is organizing 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 will include keynote speeches, invited talks, technical sessions (oral and poster). Original research papers on the tracks related to conference theme are solicited. The conference is technically sponsored by IEEE Bombay Section and University of Mumbai. Accepted and presented papers will be submitted to IEEE Xplore® Digital Library. Themes:

1. Communication & Networking

2. Signal Processing

3. Software & Process Engineering

4. Applied Computing & IT

5. Special Track on Digital India

Internet of Things (IOT), Next Generation Networking and Wireless Systems, Smart Cities, Smart Grid, Smart Healthcare, Human-Computer Interfaces, Remote Sensing and Surveillance, E-Learning, E-Governance, E-Commerce, E-Agriculture, Green Communication, Geographical Information Systems, Environment and Sustainability, Forensic and Privacy, Web-based Learning, Entrepreneurship & Start-up Initiatives.

For more details, check the CSCITA 2017 website at:
http://www.cscita.sfitengg.org/index.html

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FACULTY DEVELOPMENT PROGRAMMES

FDPs are conducted to train the Faculties from Teaching Learning point of view. Following FDPs were conducted recently.

1. **Dr Thomas Schwatz**, Expert on Data Science with Python Security from USA, 2016
   - Invited talk on Computer Forensics and Cyber Crime on 7th July 2016
   - Invited talk on Data Storage and Digital Cryptography on 8th July 2016

FACULTY INDUCTION PROGRAM

The Faculty Induction Program is a process designed to help the participants to develop personally and professionally in the initial year of employment. It aims to promote excellence in teaching and to orient and train faculty in the philosophies and practices inherent at SFIT. This Induction program enriches the Knowledge of participants through interaction with eminent personalities from industries and academics. The knowledge sharing improves the teaching learning process to the students and hence benefits the society.

The program started with an inaugural function and Dr Geeta Shetty was the chief guest for the program.

Specific skills to be developed and implemented in teaching learning are:
- Communication skills.
- Thinking and problem solving skills.
- Team spirit.
- Entrepreneur skills.
- Curriculum Implementation
- Accreditation Process for Educational Quality Assurance
- Ethics, morals and professionalism
- Writing a Research paper
- Online Research tools and Plagiarism

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At FIP 2016 different sessions covering these important aspects were included. Moreover, with the rapid pace of modern living, it feels increasingly difficult to keep our morale up and hence stress management is an important aspect affecting the personality of each individual and also affecting the teaching learning process. 36 participants attended the 5 days program. The overall feedback of the program as received from its participants proves its success.

FIP 16 concluded with a valedictory function with Fr.(Dr.) Keith D'souza being the chief guest and Dr Thomas Schwarz being the guest of honour.

Ms Monika Cheem and Ms Shilpa Chaman
Coordinators FIP 2016

The Speaker Speaks!

Mr. Daniel Dsouza (BE ExTC) was one of the finalists for the Speak for India Maharashtra Edition 2016. Some wise gains from the speaker himself.......

"Participating in Speak For India Maharashtra Edition 2016 was a truly enlightening experience in several ways. I had previously participated in several other National and State level debates over the past few years, however no other event encouraged me to step out of my comfort zone by compelling me to debate in each of the three languages, namely Hindi, Marathi, and English, that were a part of this multilingual event. With topics ranging from politics to culture and everything else in between, our oratory abilities were stretched to their limit and beyond, especially considering the high level of competition exhibited by each of the other participants. I've always felt that the ability to
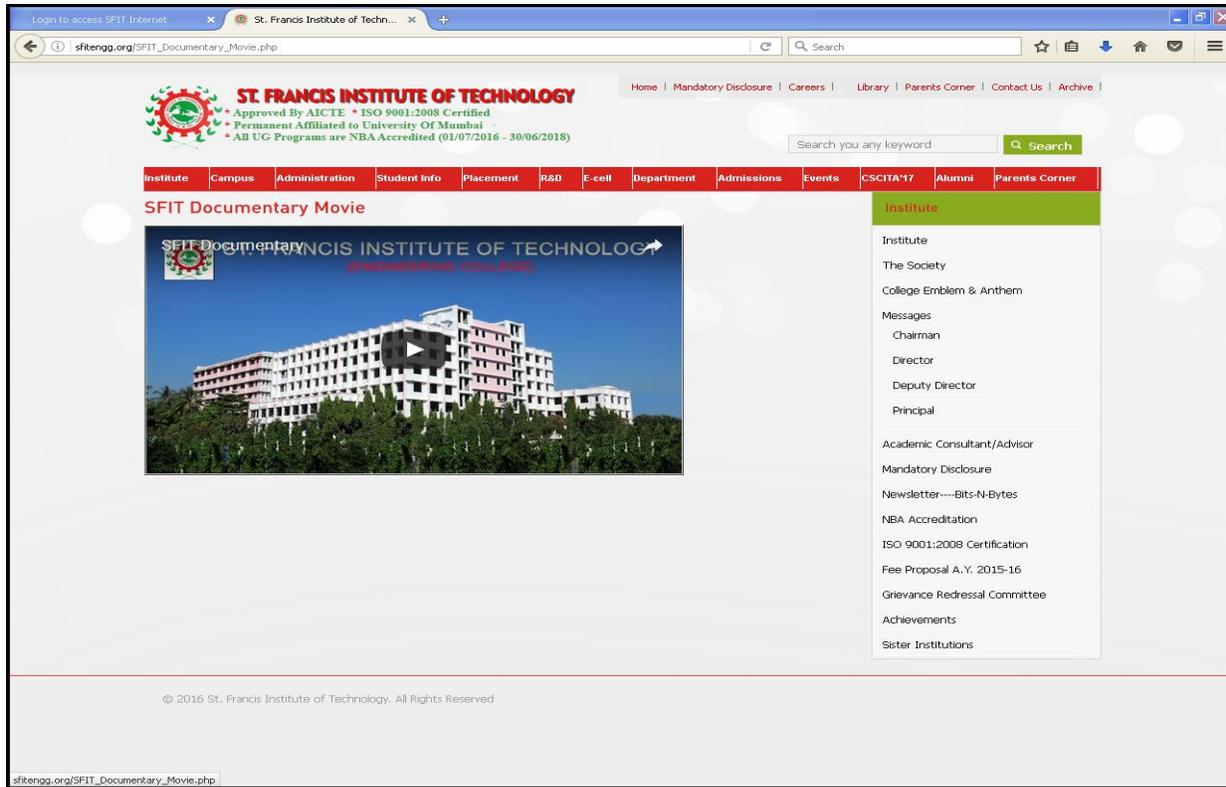
participate in a healthy debate is an essential skill for every professional, one that finds its use in both work and social situations, and my experience has only served to reinforce this belief. It is my sincerest hope that even more of my colleagues participate in debates so that they too may discover the many ways in which it can greatly add to one's personality and confidence."

Some related URL's:

1. https://www.facebook.com/speakforindiaofficial/videos/364734470543011/
2. https://www.facebook.com/speakforindiaofficial/videos/362677937415331/?video_source=pages_finch_thumbnail_video
3. https://www.youtube.com/watch?v=mMg65ErU55k

Please do watch SFIT Documentary Movie at:
http://sfitengg.org/SFIT_Documentary_Movie.php

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DEPARTMENT OF COMPUTER ENGINEERING

Dr. Kavita Sonawane
HOD – CMPN

Workshops Conducted:

Dr. Kavita Sonawane: Conducted a session on Writing Research paper: "Love Your Research and Research paper" in the FIP 2016 on 1 **July 2016** at the St. Francis Institute of Technology.

Hands-On Workshop on "Intellectual Property Rights" held on 15 October, 2016.

Publications:

1. Sonawane, Kavita. *Selection of Image Blocks using Genetic Algorithm and Effective Embedding with DCT for Steganography*. COMPUTE '16 Proceedings of the 9th Annual ACM India Conference Pages 161166; October 2016. ACM New York, NY, USA ©2016; doi>10.1145/2998476.2998495

2. G. Anuradha. *Smart Traffic Controller using Fuzzy Inference Systems*. 2nd International Conference on Next Generation Computing Technologies.

3. G. Anuradha. *Dimensionality Reduction of Inputs for a Fuzzy Cognitive Map for Obesity Problem*. IEEE ISBN 978-1-5099-1285-5

4. G. Anuradha. *Comparative Analysis of Accuracy on Heart Disease Prediction using Classification Methods*, IJAIS, July 2016
5. Roy, Bidisha. *State of the Art Technique for Recognizing Understanding of Learners*. International Journal of Advanced Research in Computer and Communication Engineering, IJARCCE, Vol. 5, Issue 7, July 2016
6. Karunakaran, Priya. *Data Migration Methodology from SQL to Column oriented Database (Hbase)*. International Journal of Advanced Research in Computer Engineering & Technology (IJARCET),Volume 5, Issue 11, November 2016, ISSN: 2278 – 1323
7. Kulkarni, Snehal. *Process Mining for Project Management*. IEEE ICDMAC (SAPIENCE), December 2016.

Achievements:

Dr Kavita Sonawane	1. Appointment as Professor 2. Appointment as Head of Comp Dept	**July 2016**
Sneha Nikam	1. Most Friendly teacher 2. Best new comer	Students have presented these awards on Teacher's day

Workshop Attended:

Ms Sneha Nikam, Ms. Varsha Shrivastava, Ms Priya Chaudhri, Ms Prerana Kushe had participated in FIP 2016 held from July 1 to 5, 2016.

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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATIONS

Dr. Gautam Shah
HOD

NPTEL Workshop for SPOC

NPTEL (National Program on Technology Enhanced Learning) Workshop for SPOCs was attended by Dr. Kevin Noronha at IIT Bombay on July 5, 2016. Major learning points were as follows:

1. NPTEL aims to enhance the learning materials available for Science and Technology in India by aligning the courses to the syllabi od AICTE and affiliated Universities.

2. At present there are a 110 video lecture courses from Phase 1 and 400 video lectures from Phase 2.

3. About 200 million people watch NPTEL class room lectures on YouTube.

4. Students can download NPTEL class room lectures and share them with their friends and others. There is no restriction even on copying the lectures on DVDs.

(Photo Courtesy: NPTEL, accessed at

http://nptel.ac.in/workshop_gallery.php?clg=iit_bombay)

Dr Kevin Noronha is appointed as **Professor** from 1st July 2016.

Dr Kevin Noronha is appointed as **Dean Academics**(UG program).

Publication details

- Samson Vaz, Inderkumar Kochar, Gautam Shah, "**Compact Dual – Band Antenna for 2.4/5.2/5.8-GHz WLAN Applications**", IEEE International Conference on Micro-Electronics and Telecommunication Engineering, pp. 74-77, September 2016.
- R E Chaudhari and S B Dhok, "**Fractal Video Coding Using Fast Normalized Covariance Based Similarity Measure**", Mathematical Problems in Engineering, vol. 2016, Nov. 2016.

Departmental Activities

- Ms Jovita Serrao completed NPTEL Online course on **Basic Electrical Circuits** from 18 July to 9 September 2016
- Mr InderKumar Kochar attended one week STTP on '**Design, testing, performance evaluation & applications of Microwave Antennae - 2016**', 21st -26th Nov. 2016, VIIT Pune.
- Ms Jayasudha ,Ms Quanitah and Ms Afreen attended Quality Improvement Programme on **Optical fiber/Wireless Communication and Network** , IIT Delhi on 17th -19th Dec 2016.

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DEPARTMENT OF INFORMATION TECHNOLOGY

Dr. Joanne Gomes
HOD - INFT

Ø **I.T for Society colloquium.**

- I.T for society colloquium was held on 20th and 21st January, 2017.

- The event was managed by Convener Dr. Joanne Gomes, Coordinators Ms. Prachi Raut and Ms. Minal Lopes, I.T department.

- Experts talk on I.T in transportation, Agriculture, Entertainment, Smart Cities and Healthcare were arranged.

- Students participated in Poster and Technical Paper presentation competition and won prizes worth Rs. 30000.

Ø **(ITSA) Information Technology Students Association Activity**

Seminar on Power BI	31st August, 2016	A Seminar on Power BI by Mr. Ashish Jagdale
Workshop JS on Node	3rd and 17th september 2016	Workshop on Node JS by Tech coder

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Seminar on Python	21st September 2016	Seminar on Python by Tech Coder
Seminar on 'Presentation Skills' under ITSA for SE IT students conducted by		

Ø Departmental Activities

1. Session on C# by I.T department faculty Mr. Bhavesh Pandya for entire INFT department faculty members was held on 17th September 2017.

2. Seminar for Final year students on 'Social entrepreneurship' related to E-commerce and E-Business Subject was held on 23rd September, 2016 arranged by Ms. Purnima Kubde.

3. I.T department faculty Ms. Vaishali Jadhav, has Submitted Ph.D. Thesis in June 2016, first positive review of Ph.D. Thesis she received in Nov.2016.

Ø Publication details

1. Nitika Rai, RD Daruwala, "Effect of Probabilistic Sensing Models in a Deterministically deployed Wireless Sensor Network", IEEE TENCON-2016, Singapore, 22-25 Nov 2016 (Presented).

2. Vaishali Jadhav and Sunita Mahajan, "Complex Query JOIN Optimization in Parallel Distributed Environment", in proceedings of the 2016 international Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), WORLDCOMP'16, Las Vegas, Nevada, USA, July 2016.

3. Purnima A. Kubde , Archana B. Patankar and Ankita karia, "Image Cartoonization Methods using LBG, KPE and KMCG vector quantization." , IEEE sponsored conference , ICCUBEA _PUNE 2016, 13th -14th August 2016.(Presented- received Best Presentation Award).

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DEPARTMENT OF FIRST YEAR ENGINEERING

Ms. Preethi Colaco
FE In-Charge Co-ordinator

Ms Preethi Colaco	**MH-SET 2016**	Cleared the Maharashtra State Eligibility Test for Assistant Professors in the subject, Chemistry
Mr. Mohammad Faiz A.	**MH-SET 2016**	Cleared the Maharashtra State Eligibility Test for Assistant Professors in the subject, Mathematics

Mr. M.K. Bysani	Awarded Best Lecturer by First Year students	Awards presented to Teachers by Students on Teachers' Day 2016.
Ms Astrid Dsouza	Awarded Best Lecturer by students of SE CMPN	
Ms Deepa Panakkal	Awarded Best Lecturer by students of TE CMPN	

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WORKSHOPS

Ms Preethi Colaco	**NPTEL – IIT certified Online Course**	Successfully completed the 8 weeks online course on <u>Chemical Applications of Symmetry and Group Theory</u> conducted during August - September 2016
Ms Beatrice Lobo	**Faculty Induction Programme 2016**	Conducted <u>Micro Teaching</u> sessions in the FIP 2016 on 1st and 5th July 2016 at the St. Francis Institute of Technology.
Ms Deepa Panakkal	**NPTEL – IIT Kharagpur certified Online Course**	Successfully completed the 8 weeks online course on <u>Soft Skills Development</u> conducted during August - September 2016
Ms Deepa Panakkal	**Faculty Induction Programme 2016**	Conducted a session on <u>Understanding Adolescent Psychology in</u> the FIP 2016 on 1 July 2016 at the St. Francis Institute of Technology.
Ms Belinda Misquitta	**3 day Workshop organized by Institute of Science, Mumbai**	Attended the workshop on <u>Empowering Youth in the World of Mathematics</u> organized by Dept. of Mathematics, Institute of Science, Mumbai from 10th to 12th September 2016
Mr. Mohammad Faiz A.	**3 day Workshop organized by Institute of Science, Mumbai**	Attended and contributed as a tutor in the workshop on <u>Empowering Youth in the World of Mathematics</u> organized by Dept. of Mathematics, Institute of Science, Mumbai from 10th to 12th September 2016

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LEARNING AND INFORMATION RESOURCE CENTRE

Students browsing the collection

Vaachan Prerana Diwas was celebrated at St Francis Institute of Technology to commemorate the birth anniversary (October 15) of Dr. APJ Abdul Kalam.

As part of the celebrations, the library organized an **Exhibition of Books** and **Take Away** of selected books and magazines.

The library received a very good response from students and staff as there were around 150 visitors. The Book Exhibition covered books on a variety of topics to meet the varied interests of the students and staff community.

The library and the staff was happy organizing this event and marked the **Vaachan Prerana Diwas** by offering a tribute to the vision and knowledge of Dr. APJ Abdul Kalam.

QR Code Services Introduced!

A QR (Quick Response) Code can contain different types of information: a website link, a phone number, a photo gallery, map directions, a video link and more.
Most web-enabled phones can scan QR codes using a scanner or reader app.

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Download a free QR Code Scanner / Reader using Google PlayStore: Quick Mark, QR Droid, QR Reader, QR App

How do I scan a QR code?

Start the scanner application, Point the phone's camera to the QR code

The phone will read the code and display its information.

	QR Code for Learning and Information Resource Centre webpage of St. Francis Institute of Technology (Engineering College)
	QR Code to access the list and abstracts of <u>B.E. Project Reports</u> available on our webpage.
	Access the old Question Papers available on SFIT LIRC's webpage.

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RADLAB

Projects Undertaken

1. Automation of Multi-Rotor Drones:

·   A model for autonomous take off and autonomous in-flight control for unmanned aerial vehicles.

2. 2-D Mapping Robot:

·   Implemented basic Simultaneous Localization and Mapping (SLAM) algorithm.

·   A robot was used to localization and 2D map of the available area was generated.

3. Multi-purpose Intrusion Detection Device (Ninja Box):

·   It is an intrusion detection device with an array of applications such as intrusion detection for drawers, cupboards and doors.

·   It does not require any setup.

4. Security Wristband:

·   Security wristband is a wearable device for kids and women.

·   It consists of a mechanism which, when triggered, automatically sends notifications to family members of the user in case of an emergency

5. SFIT Equipment Library:

·   Equipment Library is a platform for SFIT Students and Professors to lease electronic components and equipment available at RadLab.

·   It is an online portal where students get a wide range of electronic components to select for their projects.

6. Intelligent Tablet Dispenser

● The Intelligent Tablet Dispenser is a device for patients who find it difficult to remember the different combination of medications at the right time.

● Research on patenting process

7. Infinity:

·   Infinity is a kid-friendly product which makes study of basic electronics and circuits easier for kids. It is currently in the manufacturing phase

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MOSAIC 2016

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MOSAIC 2016 Events and Winners

Sr. No.	Events	Committee	Winners	Position
1	Pokebotgo	ROBOCON	Pranav Khedekar (FE IT)	I
			Ravidl'rince (FE IT)	II
2	Get Set Code 3	CSI	Vinita Erulan and group	I
			Esha Gandhi and Group	II
3	Catch'Em All	ITSA	Kewin Shah SE (IT)	I
			Sagar Marvania (TE CMPN A)	II
4	Baloon Fight	RADLAB	Tanvi Sinha (TE EXTC B)	I

			Yogesh Sinha (SE IT A)	II
			Rahil Virani (FE EXTC B)	III
5	Tech Fun	-	Shashikant Prajapati	I
			Hisham Ahmed	I
			Sherwin Minez	II
			Shawn Rodrigues	II
			Sahil Lopes	II
			Sanil Lopes	II
6	Sporto Tronics	-	Viraj Pai	I
			Samiksha Marne	I
			Siddharth Shetty	II
			Loukik Shahu	II
			Sandip Shahu	II
7	Trouble Shooting	-	Sarvesh Dubey (TE EXTC)	I
			Pankaj Chauhan	I
			Dhikesh K	II
			Manoj Molankar	II
8	Finders and Keepers	-	Sybil Saldanha (TE CMPN B)	I
			Trupti Nayak (TE CMPN B)	I
			Ashwina Pereira (TE CMPN B)	I
			Shalini Pereira (TE CMPN B)	I

			Niharika Shetty (TE CMPN A)	II
			Renuka Sule (TE CMPN A)	II
			Mansi Shah (TE CMPN A)	II
9	It's Show Time	-	Isha Mhashete	I
			Milind Dholakia	I
			Pranita Jayprakash	I
			Smiti Mourya	I
			Saurabh Gurav	I
			Rajat Nayak	II
			Aaditya Pandita	II
			Rohit Pai	II
10	Tower of Hanoi	ISTE	Ruel Lemos	I
			Sayali Martal	II
11	Techno Glow Snakes and Ladders	ISTE	Vikram and Group	I
			Leo and Group	II
12	Codester	IEEE	Manish Shah	I
			Niharika Shetty	I
			Renuka Sule	I
			Priyesh Kapadia	II
			Priyesh Dabre	II

			Paritosh Salian	II
13	Electhon	IEEE	Aishwarya Pillai	I
			Divya Gupta	
			Athulya James	
			Anindya Ghosh	
			Vikrant Labdhe	
14	MAD Math	IETE	Benita Ashley (TE EXTC A)	I
			Dhruvil Shah (SE CMPN B)	
			Glen Veigas (SE CMPN B)	
			Asmita Kothawale (SE EXTC A)	II
			Sharvil Mainkar (SE EXTC A)	
			Vikrant Kumar (SE EXTC A)	
			Vikram Kudva (SE EXTC A)	
15	Mind Spark	IETE	Siddharth Parkar (FE EXTC B)	I
			Piyush Punmiya (FE EXTC B)	
			Bhavesh Lohar (BE EXTC B)	II
			Abhiskek Sanil (BE EXTC B)	

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NSS- SRC ACTIVITIES 2016-2017

- **University Foundation Day Celebration** held at Kalina Campus, Santacruz, Mumbai on July 18, 2016. Eight NSS Volunteers participated.

- **Tree Plantation Drive** at SFIT Campus was organised in the SFIT Campus on Saturday, 22nd July, 2016. Fifty five saplings of four different varieties such as Jamun, Badam, Apta and Mango were planted in the campus by NSS-SRC Volunteers.

Director Bro. Melchior Tom planting the first sapling on the plantation day held at SFIT Campus on July 23, 2016.

- **A visit to ShantiDaan** (SFITNSS adopted home) was organized on Saturday, 30th July, 2016. About 47 NSS Volunteers visited ShantiDaan.

- **Malaria and Dengue Awareness Campaign** in Shivaji Nagar community (Borivli west) was conducted on Sunday, 14 August, 2016. About 24 NSS Volunteers spread awareness about Malaria and Dengue prevention.

- **Swachch Bharat Debate**, "Swachch Bharat, a Dream or a Possibility" was organized by the NSS volunteers to the first year students of the college from 7th -17th August, 2016.

- **Campus Clean- up at SFIT** was carried out on Monday, 15th August, 2016. About 75 NSS-SRC Volunteers participated in it.

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- **A Leadership Training Workshop** was held on Saturday, 20th August, 2016 for the NSS Volunteers. Alumni, Gaurav Karchanis was the resource person for the workshop. About 47 NSS volunteers participated in it.

- **Versova Beach Clean-up** was held on the occasion of International Coastal Clean-up Day on Saturday, 17 September, 2016 in collaboration with Versova Resident Volunteers (VRV) and Maharashtra Maritime Board. About 90 NSS-SRC Volunteers participated.

- **Blood Donation Camp and Thalassemia Screening** were organized on Thursday, 29th September, 2016. About 380 students went for Thalassemia screening. About 280 bags of blood were donated by the students.

- **Versova Beach Clean-up** was held on the occasion of Mahatma Gandhi Jayanti on Sunday, 02 October, 2016 in collaboration with Versova Resident Volunteers (VRV). About 90 NSS-SRC Volunteers participated.

- **Voter Registration Awareness Rally** was organized in collaboration with Shailendra College, Borivli East on Friday, 7th October, 2016. About 30 SFIT NSS Volunteers participated in it.

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- **Children's Day and Joy of Giving Week** was celebrated by SFIT NSS Unit in Anmol Home, Mira Road East on Saturday, 12 November, 2016. Some provisions for daily needs were distributed to the members of ShaantiDaan.

- **Children's Day and Joy of Giving Week** was celebrated by SFIT NSS Unit in ShaantiDaan, Borivli West on 14 November, 2016. Some provisions for daily needs were distributed to the members of ShaantiDaan.

- **Coffee with Vice- Chancellor (MU)** was held on Tuesday, 20th December in Kalina Campus, Santacruz East. About 28 SFIT students participated.

- **Seven Day Rural Camp** was held at Bhaliwali Village (Adopted village of SFIT NSS Unit), Virar East from 2nd January to 8th January, 2017. Fifty two NSS Volunteers participated with the main objectives being Education, Health and Hygiene and Cleanliness.

- **'Football Is Life' Orientation** was held at Gulmohar Centre, Santacruz West on Saturday, 14th January, 2017 with the objective of teaching football to the underprivileged children of Mumbai. Six SFIT NSS Volunteers participated.

- **Book Donation Drive** was organized in collaboration with Book Share India, Mumbai. About 155 books collected from SFIT faculty and students. The books donated were handed over to the Book Share India Organization on Saturday, 14th January, 2017.

Paul Fernandes
NSS Programme Officer/Social Service Coordinator