



# ST. FRANCIS INSTITUTE OF TECHNOLOGY (ENGINEERING COLLEGE)

(Roman Catholic Christian Minority Educational Institute)

(Approved by AICTE & Govt. of Maharashtra with permanent Affiliation to University of Mumbai)

P.B. No. 8456, Mount Painsur, S.V.P. Road, Borivli (West), Mumbai - 400 103.  
Tel. : 91673 70622 / 91673 70632 / 91673 70637 E-mail : sfedu@sfit.ac.in Website : www.sfit.ac.in

Ref:

Date:

## PRINCIPAL REPORT: STAKEHOLDER'S FEEDBACK ON SYLLABUS FOR A.Y. 2022-2023

The institute follows the curriculum prescribed by University of Mumbai. Regular feedbacks are sought for from its stakeholders (Students, Teachers, Alumni, Employer) to identify the curriculum gaps.

The student feedback is sought for at the end of every semester for each course of the curriculum that he/she undertakes. The teacher provides the course curriculum feedback at the end of each semester as well. He/she also mentions her feedback in the self-appraisal. Appraisal is also carried out on a one-to-one basis with HOD, Principal and Director. The Alumni feedback is taken by the SFIT-Alumni Association. The employer feedback is taken by the Training and Placement Cell at the time of campus recruitment process.

Feedbacks collected are analysed and action plans are decided to bridge the gaps identified. These curriculum gaps are addressed either by faculty or by various committees/chapters/cells.

### Action Taken Report of the Student Feedback

The feedback analysis was carried out on the basis of the course feedback given by the students at the end of the semester.

S.No.	Year	Feedback	Action Taken
1.	SE	Need to emphasis on programming languages and the practical knowledge.	Value added courses were conducted on programming languages.
2.	SE	More problems should be solved for practice.	
3.	SE	Need to emphasis on Practical exposure of various subjects like python.	Faculty members are asked to design the same
4.	SE	Real life problems and solution related to engineering should be covered rather than just conceptual studies	Faculty members are instructed to do the same
5.	SE	Applications based on IOT and their future scope can be included	Topic beyond syllabus can include IoT's use cases and future scope.

  
PRINCIPAL

St. Francis Institute  
Of Technology (Engg-College)  
Mount Painsur, S. V. P. Road,  
Borivli (West), Mumbai - 400 103

NAAC A+  
All eligible UG programs NBA Accredited  
(ISO - 9001:2015 CERTIFIED)



6.	SE	More (content) about ERP lifecycle can be included	Will be suggested when syllabus revision takes place
7.	SE	Expand the scope of PCPF so that we can study all the languages separately and not combining them in order to avoid confusion. Do not add to many languages in PCPF subject	Gap addressing seminar to be conducted.
8.	SE	Experiments should change and updated in Networks lab.	Networks lab experiments list to be updated.
9.	TE	Focus on topics like embedded systems, IOT, Parallel computing etc.	Value added course on these topics will be planned
10.	TE	More time on the code and explanation regarding it. React should be taught in detail. Practicals to be completed during practical sessions in college. Installation took lot of time and did not work many times	Gap addressing seminar to be conducted. Extra practical sessions conducted.
11.	TE	More understanding of interconnection between hardware and software in Sensor Lab mini-project	Demonstration and experiment included on sensor and networking modules interfacing
12.	TE	Full stack project to be included in Web lab.	Web lab experiment lists is rearranged as a full stack project development.
13.	BE	Exposure to cyber security is expected.	Expert Seminars is planned. Honors/Minors course on Cyber Security has started
14.	BE	Faculties should put more focus on core subjects to help students get ready for any technical competitive examinations.	Faculty members are instructed to do the same
15.	TE	For difficult subjects like TCS, more numerical should be solved for practice	Faculty members are instructed to do the same
16.	TE	For subjects like internet programming and Communication network, exposure to more tools	Faculty members are instructed to do the same

  
**PRINCIPAL**  
 St. Francis Institute  
 Of Technology (Engg-College)  
 Mount Painsur, S. V. P. Road,  
 Borivli (West), Mumbai - 400 103



		available can be given during practical sessions.	
17.	TE	Quality assurance and software testing can be added in detail in curriculum.	Workshop on software testing is planned for students.
18.	BE	More focus should be given on the research and major projects. Also, focus should be given on writing research papers, proposals etc.	Seminar and workshop on how to read a research paper, how to write a paper, and how to ease the writing technical reports using Latex were conducted.
19.	BE	Need to explore more statistical tools for result analysis in machine learning, data science, NLP, and major projects.	Faculty members are instructed to do the same
20.	SE ELEC	More practical knowledge should be given.	<ol style="list-style-type: none"> <li>1. Arranged Industrial visits</li> <li>2. Guests lectures form Industry expert ( Tata Power Company Ltd) on "Industry 4.0"</li> </ol>
21.	TE ELEC	More Exposure to Competitive Exams and Awareness	A session by Mr. Aditya Yadav was conducted on "Carrier opportunities in Indian Armed Forces" on 8 <sup>th</sup> August 2023.
22.	SE MECH	<ol style="list-style-type: none"> <li>1. Fourier series should be removed</li> <li>2. Reduce the modules</li> <li>3. Polymers should be removed</li> <li>4. Reduce the modules</li> <li>5. Overall assignments (quantity of questions in assignment) can be reduced and focus can be given to concept clearing</li> <li>6. Compression of fluids should be removed</li> </ol>	<ol style="list-style-type: none"> <li>1.All are very important concepts to be learned at the SE level and randomly can't be removed.</li> <li>2.No of assignments are directly proportional to the no of modules assigned in the syllabus.</li> </ol>
23.	TE MECH	<ol style="list-style-type: none"> <li>1. Practical's for course on MMC would help, as handling the instruments would help with better understanding</li> <li>2. basics of physics 11th and 12th can be revised</li> </ol>	<ol style="list-style-type: none"> <li>1. In the revised syllabus, lab sessions can be added.</li> <li>2. A VAC on fundamental topics can be arranged during the vacation.</li> <li>3. FEA is a vast subject. The TE students only learn a small part of it.</li> </ol>

  
**PRINCIPAL**  
 St. Francis Institute  
 Of Technology (Engg-College)  
 Mount Painsur, S. V. P. Road,  
 Borivli (West), Mumbai - 400 103


		<p>before starting with the syllabus since the derivations take some time to be understood</p> <ol style="list-style-type: none"> <li>Portion in the syllabus of FEA can be shorten up a bit</li> <li>Number of hours should be more in the subject of STQ</li> </ol>	<ol style="list-style-type: none"> <li>Available no of hours during the semester might increase when the institute becomes autonomous.</li> </ol>
24.	BE MECH	<ol style="list-style-type: none"> <li>Numerical in the subject of DMS are lengthy and takes a lot of time</li> <li>Explanation of concept should be through case studies in subject like SCM</li> <li>More programming related subjects</li> <li>More topics can be added about Hybrid and Electric Vehicle in the subject of Vehicle Systems</li> <li>Very interesting and exciting subject, the teaching was also phenomenal. Good for people with no prior knowledge about vehicles. Although, difficult to grasp and remember most of the figures, diagrams and explanation but worth taking the effort considering the relevance as we are very used to with automobiles in our day to day life.</li> <li>Practical implementation of the vibration measuring instrument and how to interpret signals from them</li> </ol>	<ol style="list-style-type: none"> <li>DMS is the subject to design real Mechanical Systems, like EOT Cranes and I.C. Engine Components. These designs are going to be lengthy and time-consuming.</li> <li>In the new revision of syllabus, courses related to programming and Hybrid and Electric vehicles can be added.</li> <li>An experimental set-up to demonstrate use of vibration measuring instruments in condition monitoring is planned.</li> </ol>
25.	SE MECH	<ol style="list-style-type: none"> <li>Difficult topics must be taught first</li> </ol>	<ol style="list-style-type: none"> <li>The order of the syllabus is always simple to difficult. But</li> </ol>

**PRINCIPAL**

St. Francis Institute  
Of Technology (Engg-College)  
Mount Poincur, S. V. P. Road,  
Borivli (West), Mumbai - 400 103



		<ol style="list-style-type: none"> <li>2. Reduce portion overall</li> <li>3. Self-learning can be added in course content itself</li> <li>4. Calculus should be removed</li> <li>5. Practical base should be more</li> <li>6. Reduce derivations</li> <li>7. Maybe the number of lectures could be increased as the time to understand the topics felt less still Vikrant Sir did his best in the teaching us with the easiest and simplest explanation anyone could give.</li> <li>8. Velocity acceleration and cam and follower should be removed</li> <li>9. All topics taught well</li> <li>10. Firstly, add some basic points, we can't directly understand the advanced topics</li> <li>11. The Department is doing a wonderful work and helping us improve day by day, I'm very thankful of all the teachers for working so hard for us and helping us move forward in life</li> </ol>	<p>certain topics need to be taught first considering what is to follow.</p> <ol style="list-style-type: none"> <li>2. Topics can't be simply removed from the syllabus!</li> <li>3. Late admission process reduced time available in the semester.</li> </ol>
26.	TE MECH	<ol style="list-style-type: none"> <li>1. Case study on some topics can be helpful</li> <li>2. Case study on the other types of sheet metal forming</li> </ol>	<ol style="list-style-type: none"> <li>1. In the syllabus revision these things can be included.</li> </ol>
27.	BE MECH	<ol style="list-style-type: none"> <li>1. Asking students to register for some similar NPTEL course would</li> </ol>	<ol style="list-style-type: none"> <li>1. NPTEL registration process will be shared with students</li> <li>2. The teacher of FM and PM will be accordingly instructed.</li> </ol>

  
**PRINCIPAL**  
 St. Francis Institute  
 Of Technology (Engg-College)  
 Mount Painsur, S. V. P. Road,  
 Borivli (West), Mumbai - 400 103


		<p>be helpful, they can get certificate too</p> <ol style="list-style-type: none"> <li>2. The PDD Course was rather interesting and the teaching was also nicely done. Presumed to be boring, the teacher made sure the sessions were interactive and proved otherwise. Besides the practical sessions were also very unique to other sessions we had. No addition or subtraction in my opinion.</li> <li>3. Could provide some samples of smart materials for study purpose</li> <li>4. Small section in course which demonstrates different samples of smart materials such as Nitinol or MR Fluids or a small course project which shows how different mechanisms can be made using smart materials such as EAPs etc. Overall amazing learning experience and amazing teacher too!</li> <li>5. More in-depth detailing of composite materials could be included in the curriculum</li> <li>6. In the subject of FM. focus on theory more, not just numerical. In exams, 70% weightage was for theory and in</li> </ol>	
--	--	---	--



**PRINCIPAL**  
 St. Francis Institute  
 Of Technology (Engg-College)  
 Mount Poincur, S. V. P. Road,  
 Borivli (West), Mumbai - 400 103

		<p>sessions only Math problems were done. The theory part was largely assumed to be self-taught and the sessions were also not distributed evenly which can be worked upon (instead of 3 hours on Wednesday/which were more like 1-2 hour session only) maybe 1-1 hour on 2 days and if madam isn't free she can take online lectures as per her convenience. Besides, students were also not much interactive or attentive which can be worked by giving them some tasks (Ungraded) which makes engineering student take interest in finance, such as giving scenarios, analysing a company's capital budgeting or finding appropriate equity shares and comparing whose portfolio performed the best in that week and what contributed to it. Overall the subject was very interesting.</p> <p>7. Learning through in-depth case studies might have been beneficial, in the subject of PM.</p>	
--	--	--	--


**Action Taken Report of the Teacher Feedback**

  
**PRINCIPAL**  
 St. Francis Institute  
 Of Technology (Engg-College)  
 Mount Painsur, S. V. P. Road,  
 Colivli (West), Mumbai - 400 103



The feedback analysis is carried out on the basis of course curriculum feedback given by the teachers at the end of each semester and the self-appraisal.

S.No.	Feedback	Action Taken
1.	Topics such as 'Algorithm design techniques', should be included. Module I should be given more teaching hours in ADSA.	"Algorithm design techniques" to be taken as topic beyond syllabus in ADSA.
2.	Quality management topic needs revision. New quality standards should be incorporated to the syllabus in STQA	"Quality standards" can be incorporated as topic beyond syllabus of STQA.
3.	Cloud computing services total number of hours can be shortened, and AWS platform can be given more hours.	Teacher may make changes in her session plan to accommodate more teaching hours for AWS.
4.	In water module other than hardness various other parameters for testing of water are not covered like pH, turbidity, TDS and other contents present.	Covered as topic beyond syllabus
5.	Relevance of communication in Information technology should be specified in syllabus	Value Added Courses or seminar can be conducted at the starting of the semester.
6.	As per feedback and suggestions gap must be identified to meet the industry needs for core courses to in turn, we can achieve the desired course outcomes.	For SE students, workshop/seminars can be conducted to fill the curriculum gap.
7.	Faculties can design and upgrade the lab manuals, which shall fill the gaps between the industry needs and list of experiments prescribed by university.	For TE students, focus will be given hands-on workshop-oriented activities. For BE students, Experiment list can be updated as per current technical requirements and seminar /workshop can be conducted.
8.	Curriculum for Skill Lab: C++ and JAVA Programming, Sem III, subject code: ECL304 can include the reference book Complete reference: Java.	A request is given to library to purchase the book as per faculty recommendation
9.	Instrumentation kits should be included in the curriculum of Electronics Instrumentation and Control Systems, Sem III, subject code: ECC305. Also, Signal and Systems should be covered before EICS.	This will be suggested when university revises the syllabus
10.	➤ Include ARM7 programming & interfacing in curriculum of Microcontroller, Sem VI, subject code: ECC402	This will be suggested when university revises the syllabus

  
**PRINCIPAL**  
 St. Francis Institute  
 Of Technology (Engg-College)  
 Mount Poincur, S. V. P. Road,  
 Borivli (West), Mumbai - 400 103



	➤ Reduction of course content in module 1 is proposed for the subject Discrete Time Signal Processing, Sem V, subject code: ECC502	
11.	Novel MOSFET Architectures FinFET, GAA-FET, CNTFET can be dropped from the curriculum of Digital VLSI, Sem V, ECC503. Also, analysis and design of different logic styles can be added.	This will be suggested when university revises the syllabus
12.	In Mobile Communication System, Sem VII, Subject code: ECC702, curriculum has to be designed to go in to the depth rather than getting the awareness. 5G technologies has to be dealt as a separate topic not as a module.	This will be suggested when university revises the syllabus
13.	In Cloud Computing and Security, Sem VII, subject code: ECCDLOC 7033, Virtualization module should be kept as a topic not as a module. It would be better to focus on AWS services only rather than focusing simultaneously on all providers.	This will be suggested when university revises the syllabus Seminars will be planned on 5G/AWS services
14.	Include Optisystem in curriculum of Optical Communication and Systems, Sem VIII, subject code: ECC801.	This will be suggested when university revises the syllabus
15.	Elective courses do not have Laboratory sessions. Laboratory sessions should be included for better understanding of the course and to demonstrate the real world scenarios.	This will be suggested when university revises the syllabus
16.	Basics of microprocessor should be included in syllabus	Value added course of 30hours was conducted to cover basics of Microprocessors
17.	Basic load analysis (such as load curve, load duration curve, max demand, average load, diversity factor, plant use factor) should be added in the syllabus	Faculty taught the basic load analysis by conducting extra lectures.
18.	smart grid mini project in subject	Faculty has taken presentations from students about various renewable sources.
19.	divergence theorem, Green Theorem, Stroke Theorem, Boundary conditions should be added.	Value added courses are organised at Department level, "Mathematical applications in power system and control" was organised for the students.
20.	In syllabus include more solar based and wind-based designing, that will helpful the students in Industry.	Faculty conducted seminar and mini projects topic is based on solar.

  
PRINCIPAL

St. Francis Institute  
Of Technology (Engg-College)  
Mount Painsur, S. V. P. Road,  
Borivli (West), Mumbai - 400 103



--	--	--

### **Sample Action Taken Report of the Employer Feedback**

For the academic year 2022-2023, the feedback analysis was carried out on the basis of feedback given by 15 companies.

The scale used for the assessing the attributes is as follows-

Excellent-5; Very Good-4; Good-3; Average-2; Poor-1

<b>Attributes</b>	<b>Average Score</b>	<b>Action taken</b>
Technical Skills	3.40	The college is promoting coding through Value added courses and encouraging students to participate in multiple coding challenges which are conducted throughout the year.
Communication Skills	4.00	The Communication Skills team of the college has been working with individual students to enhance the soft skills of the SFIT students.
Ability to work in team	3.50	Mini projects are introduced from 2nd year onwards to help the students inculcate the team building skills.
Leadership qualities	3.40	College promotes leadership qualities through Students Council, technical Chapters and Clubs, E-Cell, NSS team, Placement Volunteer Team to enhance the leadership
Interpersonal skills	3.60	College organises curricular, extra-curricular activities like Prayas, Pragati, IRIS, Mosaic and Social Service activities to develop interpersonal skills
Learning abilities	3.30	Provided students opportunities for self-learning on NPTEL, Coursera, Udemy and others
Project quality	3.35	Departments have created a rubric for assessing the quality of projects and the projects are monitored continuously.

  
**PRINCIPAL**

St. Francis Institute  
Of Technology (Engg-College)  
Mount Poincur, S. V. P. Road,  
Borivli (West), Mumbai - 400 103



Coordination from SFIT	3.50	A separate Placement cell infrastructure is created with interview rooms, auditorium exclusively for Placements.
Student Volunteer Support	4.10	--

### Action Taken Report of the Alumni Feedback

The Alumni feedback form calls for alumni to assess the attainment of program educational objectives of the specific program. In addition, the following information is sought for -

- Suggest some value-added courses/ activities to make our current students Industry ready and lay a foundation for them for lifelong learning
- What gap have you identified between your academics during your studentship and industry requirements?
- Mention a few current challenges that you face in the industry, in which SFIT could have helped you to learn during your studentship?
- Suggestions for improvement in curriculum design and development
- Any other suggestion(s)

S.No.	Feedback	Action Taken
1.	Workshop for current Emerging industry technologies like AI,ML,Cloud computing	Sessions conducted on Networking, Cybersecurity
2.	Provide training for full stack Web Developers	More electives are offered, series of programming subjects with mini projects are included in the syllabus to enhance students knowledge, technical chapters are instructed to take seminars/webinars/hands on latest technologies.
3.	Provide support to students for Internships and industry recognised certifications	Internship cell provides support for internships. Training and placement cell organized industry recognized certification programs.
4.	Domain knowledge of ERP systems, Banking, inception to go to market	Session conducted on Product Management
5.	Practical approach needs to be there in education	Visited Industrial Visit in Tata payment System to know the challenges faced in realtime
6.	Invited the Alumini and they impart real	Official alumni website:

  
**PRINCIPAL**  
 St. Francis Institute  
 Of Technology (Engg-College)  
 Mount Painsur, S. V. P. Road,  
 (Ward West), Mumbai - 400 103

	world knowledge and realities	<a href="https://sfitaa.sfit.ac.in/">https://sfitaa.sfit.ac.in/</a> Bi-yearly newsletter under the title Chrysalis Konnect is released to update the alumni about the events organized in the institute SFITAA is expanding our reach on social media platforms - Facebook, LinkedIn and Instagram. We have roughly 2000 followers on Instagram and 2500+ on LinkedIn. Annual Alumni Reunion Rekindle
7.	Interpersonal skills & Negotiation	More electives are offered.
8.	Learning time management, Event management and Teamwork	Students are given additional roles to participate in various events like MOSAIC
9.	Interview preparation	Talk by industry experts actively involved in resource hiring right from Technical Manager to HR Consultant to Corporate HR groom students to be ready to get hired. Corporate hiring processes, structuring effective CV, updating social media profiles are other aspects covered in seminars.
10.	Courses related to financial planning and business management	Seminars to help get a head start on planning finances, allocating funds, investment, plan loans a webinar are held.
11	More focus should be on sports, sports teaches strategies	Students are given opportunity to participant in sports event during college fest

Signature of the Principal  
(Dr. Sincy George)

**PRINCIPAL**  
**St. Francis Institute**  
**Of Technology (Engg-College)**  
**Mount Poincur, S. V. P. Road,**  
**Borivli (West), Mumbai - 400 103**