Ref: Date:

PRINCIPAL REPORT: STAKEHOLDER'S FEEDBACK ON SYLLABUS
FOR A.Y. 2023-2024

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 <u>Student Feedback</u>

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

S.No.	Year	Feedback	Action Taken
1.	SE ELEC	How to write answer in proper way	As they are in lack of writing practice, students were guided to how to write answers properly, by teachers
2.	TE and BE ELEC	More practical knowledge should be given.	1. Arranged Project competition for SE, TE and BE students. 2. Arranged Industrial visits for TE and BE students. 3. Guests lectures form Industry expert (Tata Power Company Ltd) on "Industry 4.0" for TE studens
3.	SE CMPN	1. Increase practical exposure to Python, DBMS, and AI/ML basics. 2. Shift focus to hands-on, project-based learning	1.Offered value-added programs in AI/ML, cloud computing, and cybersecurity. 2.Organized industry webinars to connect theory with real-world applications.

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		addressing real-world engineering problems. 3. Improve hands-on training and practical exposure to enhance confidence 4. Increase focus on soft skills, ethics, and lifelong learning activities to boost placement readiness 5. Strengthen competitive exam preparation modules 6. Include more research-driven and experiential learning projects to stimulate deeper understanding. 7. Provide better mentorship and tools for mini-project execution maintain strong practical focus on object-oriented programming.	3. Aligned mini projects with current tech trends in software development and data analytics. 4. Offered building GUI Application using java
8.	TE CMPN	1.Integrate virtual labs, online mock exams, and AI-driven learning for personalized support in advanced topics. 2. Enhance practical exposure and hands-on learning 3.Introduce modules for competitive exam readiness to strengthen knowledge areas 4.Increase research-oriented and experiential learning activities 5.Maintain strong mentorship and practical focus and Boost engagement with hands-on sessions and projects. 6.For theoretical subjects, Reinforce foundational concepts through interactive learning tools.	Provided virtual labs, online sessions, and AI-based tools for personalized learning. 2.Used adaptive learning to support students needing extra help in complex topics. 3.Workshop was conducted on React JS.

		7.Build on the strong engagement by introducing more real-world case studies.	
9.	BE CMPN	1.Enhance finance management and soft skills via workshops on digital tools like financial modelling and data analytics. 2.Encourage students to pursue online certifications (e.g., NPTEL, Coursera, Udemy) in cloud computing, blockchain, and data science, IoT. 3.Promote more experiential and research-driven learning activities. 4.Improve conceptual clarity with real-world examples. 5.Include practical projects to enhance understanding. 6.Strengthen application-based learning.	1.Hosted seminars on finance management and professional skills using digital tools. 2.Guided students to pursue certifications in cloud architecture, blockchain, data science, and DevOps through the Training & Placement Cell and NPTEL 3.Conducted a hands-on workshop on LaTeX and a seminar on writing research papers. 4.Organized a seminar on Generative AI to familiarize students with the latest industry trends. 5.Encouraged students to pursue certifications in cloud architecture, blockchain, data science, and DevOps through the Training & Placement Cell and NPTEL.
10.	SE INFT	1.More probability/ statistics concepts (should be included). 2. Remove inverse of Z transform, last semester it was separate modules for Laplace transform and inverse Laplace. this time combined in one. Other could be reduction in probability and sampling theorem and Big M method in LPP. 3. ITC 405 Computer Organization and Architecture: Module 1 can be reduced (Sequential Circuits, Flip Flops, Encoders & Decoders), also some topics in module 2 and 3 and for module 4 some better visulizations would help for various algorithms and making learning concepts easy. 4. ITC 302 Data Structures and Analysis: Queues, recursion can be removed.	1. Semester I and II Mathematics syllabus is revised to include basic probability and statistics. Higher semester Mathematics syllabus will be revised to include advanced concepts of probability and statistics. 2. Syllabus revision is being done for higher semesters. 3. Syllabus is being revised for autonomy. These suggestions will be considered. 4. After discussion with the teacher, it was decided that these topics are essential and cannot be removed from the syllabus.

		5. Remove 20% of syllabus, Syllabus is vast, Electromagnetic radiation and propagation of waves to be removed	5. Considering overall feedback and discussion with the teachers, a few topics from module 3 were dropped.
11.	BE INFT	1.DeFi (Decentralized Finance), Tether (Cryptocurrency) can be added. 2. Add more AWS services such as CloudWatch, PinPoint and SES.	Syllabus is being revised for autonomy. These suggestions will be considered.
12.	SE MECH	1. Reduce integration	1. To solve problems based on Area or Mass Moment of Inertia integration is irrelevant.
		2. More numerical on probability and statistics	2. No. of solved numerical is based on time available during the semester.
		3. Solving more problems with practical theory, Derivation of above theories should be taught in deep.	3. No. of solved numerical is based on time available during the semester
		4. More committee should be start as only 2 technical team is present.	4. No. of committees I'd directly proportional to no. of students in the department. There are 4 students' chapters currently (BIS is added recently)
		5. Computerised simulation techniques	5. In the Autonomy syllabus, we are planning to introduce Simulations in all the courses.
		6. The faculty was not able to transfer the content properly	6. There was no such matter discussed in one-to-one feedback by students. We will look into this.
		7. There should be experiment on topics like calculation of head losses	7. We have the facilities for such experiments but there is no lab associated in the syllabus in present syllabus. However, care has been taken to introduce such labs in new syllabus.

		8. Numerical solving practice	8. No. of solved numerical is based on time available during the semester
		9. Theory of belts, pulley, chains should be taught in an innovative way easy way and also gear terms	9. Suggestion accepted.
		10. Design for manufacturability	10. GD&T is being introduced in the new syllabus.
		11. Sums based questions are difficult	11. Students need to practice at home too.
		12. More practical approach should be followed. students should be able to operate the CNC machine by himself.	12. Suggestion accepted.
		13. Very theoretical subject can't connect to real life application.	13. Mechanical Engineering students need strong physical understanding. We are working on the same.
		14. The subject like FM, KOM and IE will be teaching accordingly to reference with practical examples and there should be an industrial visit w.r.t course	14. We are planning to include a few industrial visits in the course content itself.
		15. Internship opportunities needed	15. Internship opportunities are available for the students. During the vacation time, the students with fewer KTs, especially DSEs, will get a chance to do the same.
		16. Please don't give all completing work at the ending it become very hectic	16. The assignments are generally not given in the last week of the instructional period.
		17. More particular approach and today's technological advancements should be included in the curriculum	17. This will be taken care in the autonomy syllabus

13.	TE MECH	1. More problem on belt	1. No. of solved numerical depends on the no. of lectures available during the semester.
		2. Syllabus was not completed	2. Deviation Record is submitted by all the faculty members. There was no deviation observed.
		3. More practice related to numerical is required and concepts clarity-	3. Suggestion accepted.
		4. Solving extra questions on power screw, jacks, cotter joint, welded joints. Also Solving drives question like flywheel, chain, flat & V - belts.	4. No. of solved numerical depends on the no. of lectures available during the semester
		5. Numerical can be explained very nicely then to solve it instead of making pupils to solve.	5. Students also need to attempt numerical at home and come up with doubts.
		6. All topics of the course were explained very nicely.	6. Great.
		7. Please first explain the software and then how to use instead not starting to work on it	7. Will discuss with the students about the issue
		8. Lot of knowledge but faculty unable to express it.	8. Need to look into this. However, no such feedback was received during one-to-one interaction.
		9. Online short time course	9. NPTEL offers a lot of courses online, information related to which is displayed on department notice board and conveyed by faculty members during their sessions.
		10. All University question of each and every	

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		subject should be solved. 11. Remove the stuff which is not required	10. No. of solved numerical depends on the no. of lectures available during the semester. 11. Curve Fitting will be covered earlier in the semester to give a better understanding. Hypothesis Testing can be explained better using real-life example cases from research cases.
1.	BE MECH	1. Solve more numerical 2. The number of chapters in all the analytical subjects needs to be toned down.	1. No. of solved numerical depends on no. of lectures available during the semester. However, doubt clearing session/s can be arranged if students come up with doubts. 2. In the syllabus revision analytical subject will be properly scrutinised
3.	SE EXTC	1. Proper information about books should be given to learn concept 2. use of ppt to explain 3. Focus should be more on practical knowledge guidance lectures	1. Information about text and reference books is given and available in the syllabus. 2. Theoretical subjects are explained using ppt. But for analytical subject's use of blackboard is a must 3. Students are motivated to enhance their practical knowledge in practical's, Skill lab and mini project. Lectures from TPO and Industry experts are arranged for the same.
4.	TE EXTC	1. Placement training should be given 2. Specific domain related subject should be given according to student's interest	1. Placement training is given by TPO every year 2. Electives are given to choose as per their domain of interest.
5.	BE EXTC	1. More practical knowledge needed	1. Syllabus is getting revised because of autonomy. More practical's will be added.

		2. Add management subject 3. Including more subjects that are currently booming with their practical labs.	2. Management subjects are included as institute level electives. Current technology is included as electives and faculties are encourages to conduct at least 2hrs of practical session on the same. Also, practical sessions for such subjects are introduced in autonomous subjects.

Action Taken Report of the <u>Teacher Feedback</u>

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.	Cloud Computing services total number of hours can be shortened, and AWS platform can be given more hours. (INFT)	Syllabus is being revised under autonomy scheme.
2.	Relevance of communication in Information technology should be specified in syllabus. (INFT)	A new course is to be introduced in semester 3 for this.
3.	Global Relevance Industry Readiness: In the Final Year, more focus is needed on aligning the syllabus with current industry demands and global standards. (CMPN)	Enhance the integration of global industry trends into the curriculum and ensure experiments are more closely aligned with theoretical content.
4.	Practical Experiments: While the Third Year shows strong alignment between practical experiments and theoretical learning, there is a need for improvement in the Second and Final Years. (CMPN)	Focus on improving the mapping of hours to content, along with introducing more real-world case studies and practical exposure.
5.	Course Credit Distribution: Mapping of Hours: Some students feel that the alignment of credit distribution and course hours could be more consistent, especially in the Third and Final Years. (CMPN)	Revise the syllabus to ensure better alignment with advanced tools, techniques, and current industry trends. Additionally, improve the sequencing of modules and increase the scope of practical experiments.
6.	The syllabus contents need to be reduced drastically. (MECH)	New syllabus will probably take care of this issue.
7.	Industrial visit should be arranged for subjects like MFT for understanding practical applications. (MECH)	Suggestion accepted.

8.	Books by Stevenson, Slack, Heizer Render. (MECH)	Suggestion accepted.
9.	Add Value Engineering. (MECH)	Will try to accommodate in the Autonomy syllabus.
10.	Modules can be reordered logically. (MECH)	Suggestion accepted.
11.	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. Book by Goyal Bakshi can be considered in the curriculam.	Suggestions will be considered
12.	Include the reference book by William. H. Hayt for Network Theory, Sem III, subject code: ECC304.	Suggestions will be considered in the revised syllabus
13.	Include lab for Data Structure and Algorithm, Sem V, subject code: ECCDLO5014.	Suggestions will be considered in the revised syllabus
14.	In CCN, sem VI, subject code: ECC 602, application layer can be dropped as CCN is more of topics from Physical layer to transport layer. Also Network automation should be added.	Suggestions will be considered in the revised syllabus
15.	Coordinate systems and vector calculus should be included in the syllabus as a review for atleast one hour in Electromagnetics and Antenna, sem VI, ECC 603, as prerequisites.	Suggestions will be considered in the revised syllabus
16.	In Cloud Computing and Security, Sem VII, subject code: ECCDLOC 7033, Virtualization module should only contain topics needed for cloud computing. Number of hours should be decreased and alloted for Cloud services.	Suggestions will be considered in the revised syllabus
17.	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.	Suggestions will be considered in the revised syllabus

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Sample Action Taken Report of the <u>Employer Feedback</u>

For the academic year 2023-2024, the feedback analysis was carried out based on feedback given by 6 companies.

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

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

Attributes	Average Score(10)	Action taken
Aptitude Test	9	Placement cell is organizing aptitude test training as well as giving the students mock tests
Technical Knowledge	8.66	The college is promoting coding through Value added courses and encouraging students to participate in multiple coding challenges which are conducted throughout the year.
Quality of Project work	8.4	Departments have created a rubric for assessing the quality of projects and the projects are monitored continuously.
Communication Skills	9	The Communication Skills team of the college has been working with individual students to enhance the soft skills of the SFIT students.
Exposure to technology trends	8.66	Student chapters, technical clubs, departments and TPO cell is organizing workshops, seminars and hands on latest technology, there by exposing students to latest technology trends
Awareness of Current affairs	8.8	Students are encouraged to participate in various quiz competition, debate and other competitions organized. The are also having group discussions, presentations in few subjects about the current affair topics
Lab and Online Test Management	9	This will be further improved
Other Infrastructure	9.1	This will be further improved

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Food and Hospitality	8.7	This will be further improved
Overall Co-ordination	9.4	This will be further improved
Student Volunteer Support	9	This will be further improved

Action Taken Report of the <u>Alumni Feedback</u>

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.	Help in internship /provide internship opportunities/ Better training and placement/ better placement opportunities.	The department is in the process of collaborating with more organisations for internships. As well as department faculties are using their personal networks for getting internships and placements. These are few organizations which have given internships/placements to our students through departmental contacts.: Cere Labs, CloudRocks Inc., Sudha Solutions
2.	Improve hygiene in canteen and wash-rooms.	These suggestions have been forwarded to canteen committee. Washrooms are being renovated.
3.	Air conditioning units in the classrooms are required.	One classroom has been installed with AC units. Other classrooms will be subsequently getting AC units.
4.	Bridge the gap between Theory and Practice	Workshops on real-world applications of AI, IoT, and blockchain, as well as industry simulation labs.More hands on practical experience to make them

			industry ready.
5.		Lack of practical experience with real-world challenges and industry-relevant tools	Bridging this gap with mandatory internships, live case studies, and industrial training modules will better align academic outcomes with professional demands.
6.		In the industry, challenges like adapting to rapidly evolving technologies, managing large-scale projects, and effectively collaborating across global teams are common.	SFIT will prepare students by integrating live projects in partnership with industry, offering tools-based certifications, and encouraging the use of collaborative platforms like Git, Slack, and JIRA during academic projects. Mini Projects should be assigned by the faculty and the knowledge and training should also be given to develop the project. Collaboration with companies to design courses tailored to their requirements will enhance relevance. SFIT should also focus on innovation labs, where students can work on industry-funded research projects, and organize hackathons that simulate real-world challenges to build practical problem-solving skills.
7.		Teachers should research that how "Study for just passing semester exam" mentality of student can be changed and make student study with interest and actual use of particular subject in future/job.	Need to call experts and discuss about this point.
8.		Industry requirement is crystal clear and strong hold on basic concepts on core subjects. But, many students are week in core subjects only and at the end unable to crack interviews or finds difficult to perform in job.	We shall discuss this in the department and find out means and ways to improve this.
9.		Soft skills like MS Excel, Communication Skills, Basic Engineering to be taught	We are in the process of restarting the Value Addition courses. Training on Software suggested can be included in such courses.

10.	Bridge the gap between Theory and Practice	Workshops on real-world applications of AI, IoT, and blockchain, as well as industry simulation labs. More hands on practical experience to make them industry ready.
11.	Lack of practical experience with real-world challenges and industry-relevant tools	Bridging this gap with mandatory internships, live case studies, and industrial training modules will better align academic outcomes with professional demands.
12.	In the industry, challenges like adapting to rapidly evolving technologies, managing large-scale projects, and effectively collaborating across global teams are common.	SFIT will prepare students by integrating live projects in partnership with industry, offering tools-based certifications, and encouraging the use of collaborative platforms like Git, Slack, and JIRA during academic projects. Mini Projects should be assigned by the faculty and the knowledge and training should also be given to develop the project. Collaboration with companies to design courses tailored to their requirements will enhance relevance. SFIT should also focus on innovation labs, where students can work on industry-funded research projects, and organize hackathons that simulate real-world challenges to build practical problem-solving skills.
13.	An AutoCAD, DiaLUX, e-Tap course can be added	Will be discussed when we revise syllabus
14.	Give training for Communication Skills, Soft Skills, Personality Development, Latest Coding Languages	Practical sessions or demonstration of the practical scenarios to be introduced.

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15.	Motivate students to participate in open-source projects	Students will be guided and motivated to take open-source projects
16.	Focus more on introducing practical sessions in courses	In the revised syllabus under autonomy, focus will be on practical and skill-based training
17.	Organize session related to new technologies.	Honor/Minor courses are introduced for new technologies. Also workshops, seminars are regularly conducted for the same.

Signature of the Principal
(Dr. Sincy George)