

Sr.No.	Stakeholder	Findings/ Major Remarks	Action Plan
1	Students' Feedback	All students are satisfied with the curriculum.	NPS greater than threshold.
2	Teachers' Feedback	All teachers are satisfied with the curriculum.	NPS greater than threshold.
3	Alumnus' Feedback	Needs improvement in relevance of syllabus to recent Industrial developments.	<ul style="list-style-type: none"> • Inclusion of concepts relevant to current trend along with the prescribed syllabus. • Participation of students in VACs to bridge the gap between prescribed syllabus and current trends/industry. • Participation of Faculties in Syllabus construction at university level.
		Needs improvement in relevance of curriculum with respect to your current Job profile.	<ul style="list-style-type: none"> • Guest lectures by Industry Personnel • Interactive Sessions with Alumni from Industry. • Skill enhancement through VACs.
4	Parents' Feedback	All the parents are satisfied with curriculum.	NPS greater than threshold.



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Sr.No.	Stakeholder	Findings/ Major Remarks	Action Plan
1	Students' Feedback	All students are satisfied with curriculum as NPS value is above threshold.	Recommendations from department to BOS as per industry requirement.
2	Teachers' Feedback	As per industry requirements suggestions are required to be welcomed in syllabus.	Getting feedback from students if they require to take additional courses.
3	Alumnus' Feedback	Additional courses guided by industry can be introduced.	Feedback from Industry mentor during Cluster meeting. Value Added Courses.
4	Parents' Feedback	All the parents are satisfied with curriculum.	Industry participation in content delivery. Compliance of health and safety standards during project implementation.



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Sr.No.	Stakeholder	Findings/ Major Remarks	Action Plan
1	Students' Feedback	Needs improvement in following as NPS is below 65. <ul style="list-style-type: none"> Online Extra- Curricular and other activities (57.6). 	<ul style="list-style-type: none"> Rewards and Recognition event/program for SE, TE and BE students Strengthening of Wellness program by inclusion of diversified aspects for SE, TE and BE students "Synergy"- an Industry-Academia Virtual Connect Program is introduced in even semester of ACY 2020-21 and the same will be strengthened during the ensuing academic year 2021-22. Mock placement activities shall be conducted through External agencies Pre-placement talk by various industry experts shall be arranged to understand the prerequisite skills for the relevant job profile. Grooming sessions for placement at department level shall be arranged for FE, SE and TE students.
2	Teachers' Feedback	All teachers are satisfied curriculum.	
3	Alumnus' Feedback	<ul style="list-style-type: none"> Rate Industrial exposure provided by institute by offline or online mode (50) Rate the co-curricular activities conducted at the Institute for mitigating the gap between industry and academic (63.5) Rate placement opportunities provided by the Institute (48.1) 	
4	Parents' Feedback	<ul style="list-style-type: none"> Rate placement opportunities provided by Institute (64.7) Rate the industry exposure provided by institute (51) 	



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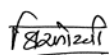


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Sr.No.	Stakeholder	Findings/ Major Remarks	Action Plan
1	Students' Feedback	Needs improvement in following as NPS is below 65. <ul style="list-style-type: none"> Online Industry-Institute Interaction (Industrial Visits, Guest Lecture, Technical Sessions, Workshops etc.) Library and Reading room facility. Online Laboratory sessions conducted using Open-source tools/Simulators. Syllabus prescribed by Mumbai University need to be upgraded. 	<ul style="list-style-type: none"> Guest lectures on recent trends are proposed. Coursera courses are suggested on AI and Machine learning to mitigate curriculum gaps. Beyond syllabus activities are suggested gaps in curriculum. Faculty training on MATLAB is proposed. Open-source tools for lab sessions will be identified and used to design problem-based experiments.
2	Teachers' Feedback	NPS is 63, hence need improvement in curriculum so that students can apply their knowledge to assess societal, health and safety issues.	Webinar on societal, health and safety issues is proposed
3	Alumnus' Feedback	NPS is below threshold for following attributes. <ul style="list-style-type: none"> Relevance of syllabus to recent Industrial developments. Relevance of curriculum with respect to current Job profile. Knowledge, skills, and abilities which will help to cope up with advanced tools /simulators used in the industry. Usefulness of curriculum for applying knowledge to assess societal, health and safety issues. 	<ul style="list-style-type: none"> Value added courses and workshops on advanced topics are proposed. Guest lectures from industry experts are proposed. Internships on recent industrial trends Many faculties are members and convener of syllabus revision committee of university of Mumbai. The suggestions by stakeholders are considered to incorporate the changes during syllabus revision meeting.
4	Parents' Feedback	All the parents are satisfied with curriculum.	NPS is above threshold for all attributes.



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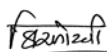
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Action Plan on Stakeholders Feedback: Part A-Curriculum

Academic Year: (2020-21)

Programme: Biomedical Engineering

Sr.No.	Stakeholder	Findings/ Major Remarks	Action Plan
1	Students' Feedback	Almost all students are satisfied with curriculum and NPS is above threshold.	<ul style="list-style-type: none"> • MU syllabus scheme is revised. New subjects like AI, ML, Data Science in healthcare etc. are introduced. • In revised MU syllabus, separate component of Mini Project is included in Sem III,IV, V and VI. • Skill based lab sessions are also introduced in revised MU syllabus to enhance practical knowledge of the students.
2	Teachers' Feedback	All teachers are satisfied with curriculum.	
3	Alumnus' Feedback	Needs upgradation of university syllabus.	
4	Parents' Feedback	All the parents are satisfied with curriculum.	



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Sr. No.	Stakeholder	Findings/ Major Remarks	Action Plan
1	Students' Feedback	Needs improvement in following as NPS is below 65. <ul style="list-style-type: none"> Online Extra- Curricular and other activities 	<ul style="list-style-type: none"> To plan more online co-curricular and extracurricular activities like Group Discussions, Debate Competitions, Elocution competitions, case study sessions where students can participate. To have research-based projects in coordination with industry To organised more guest sessions and activities catering to societal, health and safety issues
2	Teachers' Feedback	Needs improvement in following as NPS is below 65. <ul style="list-style-type: none"> Rate usefulness of curriculum to students for applying their knowledge to assess societal, health and safety issues All teachers are satisfied curriculum. 	
3	Alumnus' Feedback	All the alumni are satisfied with curriculum.	
4	Parents' Feedback	All the parents are satisfied with curriculum.	



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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	All teachers are satisfied with all attributes.	NPS greater than threshold.
2	Teachers' Feedback	All teachers are satisfied with all attributes.	NPS greater than threshold.
3	Alumnus' Feedback	Needs improvement in industry exposure provided by institute by offline or online mode.	Disseminating information and Encouraging students for Internships.
4	Parents' Feedback	Needs improvement in industry exposure provided by institute.	<ul style="list-style-type: none"> • Guest lectures/Workshops by Industry Personnel • Interactive Sessions with Alumni from Industry.



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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	Almost all students are satisfied.	Yoga Stress Management. Online support Industrial visits Industry projects Audit course Carrier counselling sessions Student placement committee
2	Teachers' Feedback	All teachers are satisfied with all attributes.	
3	Alumnus' Feedback	Needs improvement in Industrial exposure, co-curricular activities.	
4	Parents' Feedback	All parents are satisfied.	



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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	Curricular Aspects <ul style="list-style-type: none"> As per your judgement rate the Syllabus prescribed by Mumbai University (56.4) 	<ul style="list-style-type: none"> Department level Value added courses are proposed in the emerging areas (beyond curriculum) to benefit students for vertical as well as horizontal mobility "Synergy"- an Industry-Academia Virtual Connect Program is introduced in even semester of ACY 2020-21 and the same will be strengthened during the ensuing academic year 2021-22. As per the institute policy the subscriptions for online learning platforms like Coursera, EdX etc. are renewed. <p>Explanation: Last year alumni have been deprived from rigorous hands on experience due to pandemic. Dept. does have licenced advanced tools / simulators at par with Industry. Moreover, it is essential to make use advanced tools and simulators as per the revised 2019 syllabus.</p>
2	Teachers' Feedback	All teachers are satisfied with all attributes.	
3	Alumnus' Feedback	<ul style="list-style-type: none"> Rate the relevance of syllabus to recent Industrial developments (56.7) Rate the relevance of curriculum with respect to your current Job profile (42.3) How well you have acquired knowledge, skills and abilities which helped you to cope up with advanced tools /simulators used in the industry? (56.7) 	
4	Parents' Feedback	All parents are satisfied with all attributes(NPS is above 65).	

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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	NPS is 52, hence needs improvement in online extra-curriculum and other activities.	Technical and extra-curricular activities are proposed through various committees like ESTA, IETE etc.
2	Teachers' Feedback	All teachers are satisfied with all attributes.	NPS is above threshold for all attributes.
3	Alumnus' Feedback	NPS for industrial exposure and co-curricular activities is below threshold, hence needs improvement in Industrial exposure, co-curricular activities.	<ul style="list-style-type: none"> • Workshop on recent telecommunication trends is proposed through student's association ETSA. • Technical and extra-curricular activities are proposed through various committees like ESTA, IETE etc. • Guest lectures of industry experts are proposed.
4	Parents' Feedback	NPS for industry exposure is 57, hence needs improvement	Students will be guided to work on industrial problems through mini-projects, final year projects and internships.



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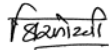


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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	Almost all students are satisfied and NPS is above threshold.	<ul style="list-style-type: none"> • Upcoming semester, efforts will be made to have more industry collaborations • From upcoming semester, we will try to arrange more hands-on training on medical equipment. • In consultation with placement cell ,we will try to invite industry experts to take mock technical interviews.
2	Teachers' Feedback	Almost all teachers are satisfied and NPS is above threshold.	
3	Alumnus' Feedback	Needs improvement in Industrial exposure, co-curricular activities & Placement opportunities	
4	Parents' Feedback	Almost all the parents are satisfied. NPS is above threshold for all attributes.	



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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	All students are satisfied with all attributes	<ul style="list-style-type: none"> The strengths and weaknesses of students will be identified through SWOC analysis in the process of mentoring. It shall be discussed with an expert to provide them support in gaining valuable insights in determining suitable career for the students. To plan more online co-curricular and extracurricular activities like Group Discussions, Debate Competitions, Elocution competitions, case study sessions where students can participate. Conduct more number of online placement grooming sessions by industry personnel To make one internship and one research project allied to industry compulsory for 2nd year and 1st year students in odd semesters
2	Teachers' Feedback	Needs improvement in the Co-curricular, Extracurricular activities and beyond syllabus activities implemented using online mode .	
3	Alumnus' Feedback	Needs improvement in following as NPS is below 65. <ul style="list-style-type: none"> Co-curricular activities conducted at the institute for mitigating the gap between industry and academic. Placement opportunities provided by the Institute. 	
4	Parents' Feedback	Needs improvement in following as NPS is below 65. <ul style="list-style-type: none"> The facilities provided by the institute for career orientation. Placement opportunities provided by the institute. Institute's efforts in organisation of workshops and value-added courses 	



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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	<ul style="list-style-type: none"> • Assignments can be done while in lecture which will help to work over that concept, and it will be less hectic. • The amount of self-study and theoretical assignments should be reduced. 	<ul style="list-style-type: none"> • Coding/problem-based learning assignments to be conducted during Practical sessions. • Replacing traditional assignments with Projects, Papers, Blogs, Technical articles, Value added assignments.
2	Teachers' Feedback	<ul style="list-style-type: none"> • Increasing communication with Industry 	<ul style="list-style-type: none"> • Specific Workshops for Students on current technologies through Technical Committee activities.
3	Alumnus' Feedback	<ul style="list-style-type: none"> • Teach students how to build programming logic rather than only just conducting practical sessions. • Should encourage R&D, should conduct more technical events such as hackathons, should encourage original research by providing facilities and guidance. • The assignments should be more practically approached where the students must be made to think and made to solve complex problems. • We should focus more on top job requirements in last 2 years and add workshops as compulsory for students. 	<ul style="list-style-type: none"> • Encouraging students to use Coding Platforms like Hacker Rank, etc. • Encouraging students to take part in Hackathons, coding competitions and have a GitHub account on which they can maintain repository of their project work. • Organizing Idea-Generation competitions • Replacing traditional assignments with Coding/problem-based learning/Project-based assignments. • Technical Activities in recent domains by Technical Committees • Identifying, disseminating, and motivating to students the information about good MOOC courses. • Disseminating information about Industry Internships
4	Parents' Feedback	<ul style="list-style-type: none"> • Introduce internship/research opportunity in 2nd and 3rd year. • More focus should be on real-World application and less theory based. 	<ul style="list-style-type: none"> • Creating Internship opportunities within Institute for students. • BSAs including modern open-source tools and discussion of real-life Case studies.



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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	<ul style="list-style-type: none"> • Open more opportunities to all students instead of pushing the same students in every other events. • College should have a in-campus hostel or somewhere nearby. • A+ college. 	<p>Maximum two event per student.</p> <p>Recommendation to Management.</p> <p>Retain status.</p>
2	Teachers' Feedback	<ul style="list-style-type: none"> • A good mix of Humanity Science, General Engineering, Professional Core, Basic Science, Engineering Science, Open Electives, Professional Electives and Problem based learning contributes to enrichment. • Excellent institute. • Autonomy can allow curriculum enrichment through frequent updates. • Lab Session should have more focus than only theory. • Building faculty expertise. • Courses should be more inclined towards industry requirements. 	<p>Autonomy by 2021.</p> <p>Monitoring practical sessions.</p> <p>Facility to build capacity.</p> <p>Recommendation to BOS.</p> <p>Proper coordination with OHU committee. Session on upcoming technologies.</p>
3	Alumnus' Feedback	<ul style="list-style-type: none"> • Support for OHU students. • Connect the latest trends and technology going on in industries and try to conduct seminar or workshop on it. • Data Engineering methodologies like cloud data integration, migration, big data (cloud) - Azure, AWS, GCP should be included more in current curriculum. College should connect with above cloud providers to provide knowledge on Cloud Services and hands-on experience on its services. It will have direct impact on organizations need and student's career. 	<p>Recommendation to BOS.</p> <p>Strengthen dream companies' interaction.</p> <p>Parent meeting every semester.</p> <p>Coordination with internship cell.</p>
4	Parents' Feedback	<ul style="list-style-type: none"> • Everything is well and good. Just one suggestion that, student exchange program and more MNC placements should be encouraged and added more. 	

		<ul style="list-style-type: none">• More interaction with parents, input on higher studies and industry specific courses.• College should actively provide internship and industrial visit.	
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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	<ul style="list-style-type: none"> • More online course would've been better, like Coursera subscription ended in November, which was very good. • There should be course for learning python, JavaScript etc. so people can have an option to change their on-going field • Placements can be improved • A domestic industrial visit. • For analytical subjects use of digital pen or black board would help us to understand subject better than ppt 	<ul style="list-style-type: none"> • As per the institute policy the subscriptions for online learning platforms like Coursera, EdX etc. are renewed. • Mock placement activities shall be conducted through External agencies • For analytical subjects use of Pen Tablet along with writing pad is already in place. However review shall be taken to ensure the same • Action plan proposed in the response to the students and alumni feedback in PART A and B shall also address the action required for the responses in PART C of Students, Alumni, Teachers and Parents
2	Teachers' Feedback	<ul style="list-style-type: none"> • Enhance Industry interaction • Inclusion of industry experts for content delivery • Enhanced exposure to Hands on practices as per the industry requirements 	
3	Alumnus' Feedback	<ul style="list-style-type: none"> • Extensive use of ICT and digitisation to meet the requirements of millennial generation • Use of open-source tools and extra efforts for programming concepts • Enhance Industry interaction and placement 	
4	Parents' Feedback	<ul style="list-style-type: none"> • Inclusion of latest technology studies also in with on-going curriculum • Improve Industrial opportunities 	



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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	<ul style="list-style-type: none"> Teaching should be done more with examples and little less to theory. And theory should be added with Story example and make learning more interesting and imaginative. Placement Activities and Training Program should be started a bit early. Needs more placements for EXTC & ETRX as compared to CMPN or INFT. Aptitude classes should be conducted free in college. Practical should not take online. 	<ul style="list-style-type: none"> Blended teaching mode is proposed through effective use of web resources. Problem based experiments are suggested to have insights of theoretical concepts . Pre-Placements sessions are proposed for Mock and aptitude test.
2	Teachers' Feedback	<ul style="list-style-type: none"> More emphasis to be given on hands on. Need to use of CAD tools effectively. Space, training and perk necessary for enhancing curriculum delivery skill sets. Recent trends of industrial technologies need to be included. 	<ul style="list-style-type: none"> Open-source tools are suggested for hands on and lab experiments. Problem based experiments are suggested for every subject. Value added courses on industrial technologies is proposed.
3	Alumnus' Feedback	<ul style="list-style-type: none"> Add more things into the syllabus which is used in industries and try to bring more industrial skills into the topics. Curriculum should include a brief overview of technology uses in industries and call in Experts to talk over job opportunities. More hands-on approach than theory would help students. 	<ul style="list-style-type: none"> Guest lectures from industry experts are proposed to mitigate curriculum gaps. Mini projects are suggested to get practical exposure on theoretical concepts. Many faculties are members and convener of syllabus revision committee of university of Mumbai. The suggestions by stakeholders are considered to incorporate the changes during syllabus revision meeting.

			<ul style="list-style-type: none"> • Coursera courses are suggested on AI and Machine learning to mitigate curriculum gaps.
4	Parents' Feedback	<ul style="list-style-type: none"> • More efforts are needed for Internship offerings and Placement development. • More exposure to coding languages 	<ul style="list-style-type: none"> • More no. of internships in the core industry are proposed. • Pre-Placements sessions are proposed for Mock and aptitude test. • Coding competitions are proposed through student association ETSA.



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Sr.No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	<ul style="list-style-type: none"> Placement updates should be timely and with proper coordination. Provide coursera from the 1st year itself. Student should make major projects every year 	<ul style="list-style-type: none"> Institute had already collaborated with "Coursera" up to Jan 2022, students can enroll themselves for the required course and acquire necessary skill for the execution of their project.
2	Teachers' Feedback	<ul style="list-style-type: none"> Need to need understand specific Industry Requirement. Curriculum setting should not be done by Academicians. Projects are getting affected by online mode. Suggested to have some platforms for implementing projects 	<ul style="list-style-type: none"> Institute had already purchased license copy of MATLAB software. Students and faculties can enroll themselves for the course of their choice offered by MathWorks. Similarly, almost every faculty of the Institute had floated VAC courses for students and faculties.
3	Alumnus' Feedback	<ul style="list-style-type: none"> Curriculum and syllabus should move to a project-based approach rather than theory-based approach. Curriculum should be more hands on and practically oriented rather than just theory based. Better placement opportunities, more exposure on practical biomedical equipments and medical instrumentation 	<ul style="list-style-type: none"> This year 3 projects were carried out in collaboration with Research Institutes & Industry. In the upcoming year more collaborative projects will be carried out.
4	Parents' Feedback	<ul style="list-style-type: none"> More efforts are needed for Internship offerings and Placement development. More Industry exposure and more core field placement opportunities for Biomedical Students Syllabus to be aligned with industry requirements 	<ul style="list-style-type: none"> MU syllabus scheme is revised. New subjects like AI, ML, Data Science in healthcare etc. are introduced. Reviews from Industry experts were taken while framing the detail syllabus. From upcoming semester(if conducted in offline mode) more hands-on training on

			<p>medical equipment will be arranged.</p> <ul style="list-style-type: none">• Institute had already formed separate internship cell. Through this cell more internships opportunities in core Biomedical companies are created for students to improve their industry exposure.
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Sr. No.	Stakeholder	Major Findings/Remarks	Action Plan
1	Students' Feedback	<ul style="list-style-type: none"> • Should focus on placements, live projects, internships • Online should be offer good valuable courses for the students benefits • Online Training of preparing from Interview like virtual GD among students, Aptitude questions • Need some hands-on exp. on business Analytical tools • Good online value-added courses should be offered for the students 	<ul style="list-style-type: none"> • To have research based projects in coordination with industry. • To make one VAC certification mandatory for each specialisation during 2nd year • Make one MOOC Compulsory for min. two subjects during each semester
2	Teachers' Feedback	<ul style="list-style-type: none"> • Need to add areas of global requirements. Also need to work on enhancing the basic writing skills of students. Lot of activities where adjusting to change or adaptability factor can be cultivated • Need for more practical approach and industry- based curriculum learning should be encouraged. • The course contents partially help employability but certainly not entrepreneurship. • Value Added Courses should be promoted. Industry certification should be promoted. • Regular reading habits should be inculcated. Priority for assignments and participation in class need emphasis. Written and oral communication abilities need improvement. 	<ul style="list-style-type: none"> • To identify subjects where one industry visit can be made mandatory. • To conduct more number of online placement grooming sessions by industry personnel • To make one internship and one research project allied to industry compulsory for 2nd year and 1st year students in odd semesters to enhance industry institute interaction • To identify the alumni who can formally mentor the budding managers in their respective specialisation along
3	Alumnus' Feedback	<ul style="list-style-type: none"> • Institute should work on better placements. • It would be helpful if there will be a mandatory excel course as a part of the curriculum. 	

		<ul style="list-style-type: none"> • More experienced industry interaction which will help students to understand different sectors perspective. 	with the in house faculty.
4	Parents' Feedback	<ul style="list-style-type: none"> • Need more placement opportunities for IT and other specialization than marketing. • Please provide wide industrial knowledge and subject which are necessary in field. • College should provide with industrial visits and various value- added courses for students. 	



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