



Consolidated feedback report on curriculum revision for 2nd BoS 2023

The feedback on the existing curriculum of the B. Tech (Mechanical Engineering) program was sought by the Department of Mechanical Engineering from various stakeholders through online as well as offline modes. A total of 106 responses were received from Students, Alumni, and Employers through an online Google form generated for the purpose. However, a total of 56 responses were received from parents of existing students through an offline form. The feedback received has been analyzed and a summary of the comments/suggestions in the consolidated form is attached herewith as Annexures A, B, C, and D in respect of Students, Employers, Alumni, and Parents respectively.

MJK
23/06/23

Dr. M. Jebran Khan
Assistant Professor, DoME

HOD, ME

Dr. Mehnaz,

Pls go through the feedback Summary & put up in next meeting for discussion.

Mehnaz
23/6/23



Annexure-A

Stakeholder	Feedback
Students	<ul style="list-style-type: none">• While most of the students have a good impression of the syllabus, some are of the opinion that more practical learning must be incorporated into the syllabus to obtain enough skills. A few are of the opinion that the syllabus of courses is lengthy and should be reduced. Again a few are of the opinion that the syllabus is not up to date according to real-world requirements.• Students have also suggested that the syllabus should be more GATE oriented.• The students have listed most of the courses in the curriculum as being relevant and meeting the needs of the current industrial scenario.• More practical work should be included.• Some new courses like Machine learning, Additive manufacturing 3D printing, Biomechanics, Artificial intelligence, data analytics, Communication skills, Programming, Industrial Automation, Mechatronics & Robotics lab, IOT, Computer Applications in Mech. Engg.(CAME), Computational Mechanics, Product development and Design, Aerodynamics, hardware repairing, Personal development, Physical education,• Different softwares ANSYS, COMSOL and MATLAB should be introduced and in the beginning semesters only.• More practical work should be included in the syllabus of the workshop practices, Automobile courses, and courses related to robotics 3d design.• New and modern instruments should be bought for physics and chemistry labs.• Basic organic chemistry, basic quantum mechanics, Electron microscopy should be introduced.• Different Students have listed different courses requiring curriculum revision. The courses include Environmental science, Automobile Engineering, CAD, IC Engines, BEE, Strength of Materials, Thermodynamics, Heat & Mass Transfer, Mathematics, Physics, Fluid Mechanics, Physics lab., and Chemistry lab.• One of the students has suggested that C programming should be replaced by Python.• Another student has suggested that the syllabus of I C Engines should include Hydrogen and Alternate fuels.• One more student has suggested that the course on communication skills should be practical-oriented.• Another student has suggested that the chemistry course should be replaced by some relevant mechanical engineering subject.



Annexure-B

Stakeholder	Feedback
Employers	<ul style="list-style-type: none">• The overall impression of the syllabus by employers is good.• The employers have listed some courses in the curriculum viz., Robotics, Production, CAM, Refrigeration and air conditioning, HVAC, Environmental Science, Advanced Manufacturing Processes, Computer-Aided Design, and Industrial Engineering as meeting the needs of the current industrial scenario.• Courses viz., Measurements and instrumentation, IC engines, and automobile engineering require content revision. Further, contents of existing courses should be revised to include Digital and Green manufacturing, Total productive maintenance (TPM), Six Sigma Methodology.• Courses on Numerical analysis, Nano-mechanics, Programming, Artificial Intelligence, Industrial Safety, Disaster Risk Reduction and Management, Product & Process Development, Industry 4.0, Basic Course on Excel and Advanced Excel including Advanced Presentations, Course on the usage of Minitab Software and Tableau Software should be added in the curriculum.



Annexure-C

Stakeholder	Feedback
Alumni	<ul style="list-style-type: none">• The overall impression of the syllabus by alumni is good.• More practical work should be added to improve real-world understanding of the courses.• The program should also include sessions to guide students on their future after the B. Tech program. Guidance on higher studies and job/placement opportunities should be provided.• The alumni have listed many courses in the curriculum as meeting the needs of the current industrial scenario.• The alumni have suggested that the contents of courses, viz., Tribology, Automobile Engineering, Heat & Mass Transfer be revised. Further, one of the alumni's also suggested the inclusion of metrology portion in the Measurement and Instrumentation course.• Alumni have suggested the introduction of the following courses in the curriculum:<ol style="list-style-type: none">1. Product Design and Development2. Artificial Intelligence3. Piping Technology4. Reverse Engineering5. Surface Engineering6. Design and simulation courses viz., MATLAB, Solidworks, ANSYS, etc.7. Course on Nuclear power generation and supply8. Courses on Python.9. Data Science courses10. CAE and CAM,11. Personality development• More industrial visits should be incorporated in the curriculum.



Annexure-D

Stakeholder	Feedback
Parents	<ul style="list-style-type: none">• Courses on Automobile based courses, Programming languages, Personality development, Market oriented, Marketing, Skill and industry based courses should be added in the curriculum.• Courses on softwares such as Catia, ANSYS, Witness, COMSOL be added in the curriculum.• More laboratory/practical based learning should be included.• Regular Industrial visits for students to be incorporated in curriculum.• Job trends should be taken into consideration in the curriculum.• Design projects should be added in curriculum to solve real world Mechanical Engineering problems.• Syllabus should be GATE and other competitive exams oriented so that students gain awareness and are able to compete.