



DEPARTMENT OF CIVIL ENGINEERING

B.Tech CIVIL ENGINEERING

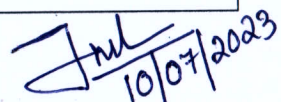
Action taken Report on Curriculum Feedback 2020

Stakeholder	Suggestions
Student	<ul style="list-style-type: none">• Students suggested to include basics of core civil engineering subjects in the early semester• Basic of non civil branch subjects were not felt useful• Students objected the study of certain science and humanities and programming subjects in their curriculum• Suggestion for including more lab courses• More hands on training is required• To be made aware of the latest happenings in civil engineering• MOOC course to be made as the part of curriculum• Recommendation of department specific minor courses• Recommendation on more job related minor courses• Students showed interest in changing design project with mini project.• More importance and weightage should be given to comprehensive course work subject.• Suggestion on regular construction site visit, mandatory internship program• Skill development course to be implemented from the first semester
Alumni	<ul style="list-style-type: none">• The B.Tech curriculum of civil engineering should be more department specific• Regular guest lectures on relevant happening topics• More hands-on training for the students

	<ul style="list-style-type: none"> • Inter department programs to be introduced. • Mandatory mini project before the final year project • More humanities and social science subjects like professional communication, labour law, general law to be given as courses. • Extra mandatory internship of minimum 6 months after the course completion. • Online courses from different universities
Faculty	<ul style="list-style-type: none"> • Students should be provided opportunities to conduct research during the curriculum • Lab courses should be integrated with the corresponding theory courses • Students should be given opportunities for self-learning • More program electives to be incorporated. • Provide more innovative teaching methods
Parents/Industrial representatives	<ul style="list-style-type: none"> • Need more emphasis on industry related courses • Artificial Intelligence in civil engineering need to be discussed • More number of civil engineering software related subjects to be introduced. • At-least a 6-month internship needs to be mandatory.

Action taken report: 2020 Curriculum

- Industry related talks are arranged for students in each subject for every semester.
- Students were encouraged to participate in national level events and competition
- Hands on training and skill development programs were introduced to students of all semester
- Project exhibition and technical expo were organized for promoting team spirit and organising skill among the students.
- Internship initiated by the department and selected students were sent to civil engineering sectors.


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.Tech COMPUTER SCIENCE AND ENGINEERING

Action taken Report on Curriculum Feedback 2022-2023

Stakeholder	Suggestions
Student	<p>These are some suggestions to enhance the curriculum and opportunities for Computer Science students:</p> <ul style="list-style-type: none">• Alumni Interaction: Organize regular alumni networking events, guest lectures, or panel discussions where current students can interact with alumni working in various industries. This provides valuable insights and exposure to real-world experiences.• Web Development Courses: Incorporate web development courses into the curriculum to meet the growing demand for web developers. This can include teaching front-end and back-end technologies, frameworks, and best practices.• Introducing courses related to Computer Science in First year : Introduce a specific subject for Computer Science in the first year itself to provide a basic understanding of the field. This subject can cover fundamental concepts, programming languages, and problem-solving techniques.• Relevant Programming Languages: Include programming languages in the curriculum that are widely used and beneficial for students. This ensures that students have practical skills to work on their own projects in later semesters. Examples can include Python, Java, C++, or JavaScript.• Workshops and Practical Applications: Increase the number of workshops and practical applications to align with industrial requirements. This allows students to apply their theoretical knowledge to real-world scenarios and gain hands-on experience.• Industry-Relevant Subjects: Introduce subjects that are highly relevant to the industry, such as data science, artificial intelligence, machine

	<p>learning, cybersecurity, or cloud computing. These areas have significant demand in the job market and provide students with specialized skills.</p> <ul style="list-style-type: none"> • Promote Hackathons: Encourage and support hackathons within the university or in collaboration with external organizations. Hackathons foster innovation, teamwork, and problem-solving skills while providing a platform for students to showcase their abilities. • Collaboration with Global Universities: Establish partnerships or exchange programs with reputable global universities to offer students opportunities for international exposure, research collaborations, and diverse perspectives. • Industry-Specific Skill-based Courses: Replace non-credit courses unrelated to computer science with industry-specific skill-based courses. These can cover areas like project management, agile methodologies, communication skills, or entrepreneurship to enhance students' employability. • Minor Courses: Introduce more minor courses that allow students to explore subjects from other departments. This promotes interdisciplinary learning and enables students to incorporate knowledge from other fields into their computer science studies.
<ul style="list-style-type: none"> • Alumni 	<p>These are some suggestions from Alumni to enhance the curriculum and opportunities for Computer Science students:</p> <ul style="list-style-type: none"> • Industry relevant Programming languages: Ensure that programming subjects in the curriculum focus on current and relevant technologies instead of outdated programming languages. This helps students acquire skills that are in demand in the industry. • Regular Guest Lectures: Organize guest lectures by industry experts, professionals, and researchers on relevant topics. These lectures provide valuable insights, industry trends, and real-world experiences to the students. • Mandatory Summer Internships: Make summer internships mandatory as part of the curriculum. Internships offer students practical exposure to the industry, helping them gain valuable experience and develop a professional network. • Live Projects: Introduce the concept of live projects, where students work on real-world projects with industry partners or clients. This provides hands-on experience and helps students understand project

	<p>management, teamwork, and problem-solving in a real-time environment.</p> <ul style="list-style-type: none"> • Collaboration with Online Edutech Companies: Partner with online educational technology companies to provide courses at subsidized rates for students. This collaboration enables access to high-quality, industry-relevant courses and certifications, supplementing the existing curriculum. • Mini Projects: Include mini projects as part of the curriculum to give students exposure and hands-on experience before their final-year project. Mini projects help build confidence, enhance technical skills, and provide a stepping stone towards larger projects. • Professional Communication and Business Writing: Introduce subjects like professional communication, business writing, and interview preparation to prepare students for job interviews and enhance their communication skills. These skills are crucial for success in the professional world. • Industry Internships: Facilitate internships with industry partners to provide students with exposure to the requirements and workings of the industry. Internships help students understand corporate culture, processes, and practical applications of their skills. • Clarity on Career Path: Emphasize how internships can provide clarity on career paths and guide students on starting their professional journeys. Internships expose students to different job roles, industries, and work environments, helping them make informed career decisions.
Faculty	<p>Some additional suggestions to enhance the curriculum and opportunities for Computer Science</p> <ul style="list-style-type: none"> • Innovative Teaching Processes: Incorporate innovative teaching processes such as tutorials, assignment projects, coding sessions, and hands-on activities. These methods encourage active learning, problem-solving, and practical application of knowledge. • Case Studies: Survey and include relevant case studies available in the public domain. Case studies provide students with real-world scenarios, allowing them to analyze and apply theoretical concepts to practical situations. • Use of Simulators: Introduce tools like simulators or virtual environments to improve the quality of teaching. Simulators enable

	<p>students to experiment, simulate real-world scenarios, and gain practical experience in a controlled environment.</p> <ul style="list-style-type: none"> • Presentations and Online Resources: Utilize presentations and online resources such as NPTEL videos (National Programme on Technology Enhanced Learning) to supplement lectures. These resources offer alternative explanations, visual aids, and expert insights to enhance students' understanding. • Performance Assessment: Assess student performance based on presentations, group activities, and other interactive methods. This form of assessment encourages teamwork, communication skills, critical thinking, and presentation abilities, which are essential in professional settings. • Skill Development Programs: Include skill development programs and industry-oriented trainings to improve students' employability. These programs can focus on enhancing technical skills, soft skills, and industry-specific knowledge to bridge the gap between academia and industry requirements. • Awareness Sessions on Industry Trends: Conduct awareness sessions to introduce students to newer trends and advancements in industries relevant to computer science. This widens their knowledge horizon, prepares them for emerging technologies, and helps them stay updated with industry demands.
<p>Parents/ Industrial representatives</p>	<p>Suggestions from Parents and Industrial Representatives</p> <ul style="list-style-type: none"> • Emphasis on Python Programming: Give more emphasis on courses like Python programming throughout the curriculum. Python is widely used in the industry and known for its simplicity and versatility. Strengthening students' proficiency in Python will equip them with a valuable skillset. • Object-Oriented Programming (OOP) in Python: Incorporate object-oriented programming concepts within the context of Python. OOP is a fundamental paradigm used in software development, and understanding how to implement it in Python will provide students with a strong foundation for building robust and modular applications. • Minor Subjects in AI: Introduce minor subjects focusing on emerging areas of artificial intelligence (AI). AI is a rapidly growing field with numerous applications, and providing students with the opportunity to explore AI topics as minors will equip them with valuable skills and knowledge in this high-demand area.

	<ul style="list-style-type: none"> • Industrial Collaborations: Foster collaborations with industries to facilitate real-world projects. Partnering with companies or organizations can provide students with the opportunity to work on industry-relevant projects, enabling them to apply their skills and gain practical experience. • Project-Based Learning: Place a strong emphasis on project-based learning throughout the curriculum. Encourage students to work on projects that align with their interests and career goals, allowing them to develop problem-solving abilities, teamwork skills, and a deeper understanding of practical applications.
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Action taken report to enhance 2022 Curriculum
<ul style="list-style-type: none"> • Industry Training by UST Global and Enxcl: Arranged industry training programs for students, providing them with practical exposure to the working environment and skills required in the industry. • Expert Talk Sessions: Conducted various technical and non-technical talk sessions by industry experts from organizations like CDAC, UST, and IIT Guwahati. These sessions aimed to broaden students' knowledge and provide insights into industry trends. • Internships: Initiated internships for selected students, who successfully completed an internship in Full Stack Development with UST Global. This practical experience helped students apply their skills in a real-world setting. • Workshop on Curriculum Design: Conducted a workshop to incorporate industrial competency into the curriculum design. This ensured that the curriculum is aligned with industry requirements and prepares students with relevant skills. • Hackathons and Boot Camps: Organized events like hackathons and boot camps to enable students to gain practical skills in emerging technologies. These events fostered innovation, problem-solving, and collaboration among students. • Participation in National Talk Series and Competitions: Encouraged students to participate in national talk series, coding competitions, and certification courses to enhance their technical abilities and showcase their talent. • Certification Course on AI and ML: Successfully completed a certification course on Artificial Intelligence and Machine Learning, providing students with specialized knowledge in these cutting-edge fields.

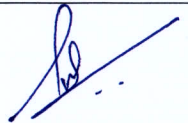
- **Project Exhibitions and Technical Expo:** Conducted project exhibitions and technical expos to showcase the technical skills of students and provide a platform for industry interaction and feedback.
- **Agile and Software Testing Courses:** Offered courses on Agile methodologies and software testing to improve students' industrial-oriented technical skills and understanding of software development processes.
- **MongoDB Workshop:** Organized a workshop on MongoDB, a popular database technology, based on industrial requirements. This workshop equipped students with relevant skills and knowledge in database management.
- **Cybersecurity Workshop:** Conducted a three-day workshop on cybersecurity as an awareness program. This aimed to educate students about the importance of security in the digital era and enhance their understanding of cybersecurity practices.
- **Mini Projects:** Assigned mini projects for selected subjects to provide students with practical exposure and strengthen their project management and technical skills.
- **Skill Development Courses:** Initiated skill development courses on Arduino, Python programming, Web development, and Full Stack development. These courses aimed to enhance students' technical skills and make them industry-ready.
- These actions taken in the 2022 curriculum have helped students gain practical exposure, acquire relevant industry skills, and align their knowledge with emerging technologies and industry requirements.

Action taken report to enhance 2023 Curriculum

These are some actions taken to enhance 2023 Curriculum

- **Web Development Courses:** Incorporated web development courses into the curriculum to meet the growing demand for web developers.
- **Introducing courses related to Computer Science in 1st year:** Introduce a specific subject for Computer Science in the first year itself to provide a basic understanding of the field.
- **Relevant Programming Languages:** Included python programming languages in the curriculum that are widely used and beneficial for students.
- **Workshops and Practical Applications:** Increased the number of workshops and practical applications to align with industrial requirements. This allows students to apply their theoretical knowledge to real-world scenarios and gain hands-on experience.

- **Industry-Relevant Subjects:** Introduced subjects that are highly relevant to the industry, such as data science, artificial intelligence, machine learning, cybersecurity, or cloud computing.
- **Industry-Specific Skill-based Courses:** Introduced Skill based courses cover areas like project management, agile methodologies, communication skills, or entrepreneurship to enhance students' employability.
- **Mandatory Summer Internships:** summer internships mandatory as part of the curriculum.
- **Mini Projects:** Included mini projects as part of the curriculum to give students exposure and hands-on experience before their final-year project.
- **Professional Communication and Business Writing:** Introduce subjects like professional communication, business writing, and interview preparation to prepare students for job interviews and enhance their communication skills.
- **Industry Internships:** Facilitated internships at S8 with industry partners to provide students with exposure to the requirements and workings of the industry.



HOD

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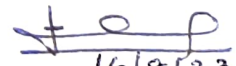


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Action taken Report on Curriculum Feedback 2022-2023

- Skill Development Programs such as Prototype Development using STM 32, Data Acquisition for IOT Applications are added to enhance hardware and technical skills of students and to make them aware of latest technologies. To provide training in emerging areas like AI and IOT, a new lab is setup in the department under INTEL Unnati Scheme.
- During this academic Year MOUS were signed with various institutions. Students are to encouraged to undergo internships at renowned industries like Sree Chitra Tirunal Institute for Medical Sciences and Technology, National Institute of Speech and Hearing (NISH), Bharat Sanchar Nigam Limited (BSNL), KELTRON, Tata Elxsi Ltd., Vinvish Technologies Pvt. Ltd. etc. to get industrial experience. Students are encouraged to do internships during the semester breaks so that they have better insight on the practical aspects of the concepts learned from the theoretical classes.
- In order to make the students capable of working in multidisciplinary areas, we have introduced 2 new BTech Minor baskets (Biomedical Engineering, Robotics and Automation) in ECE. The students have an option to select any of sub areas from the available baskets.
- To improve practical knowledge and upskilling, we have introduced lab integrated courses and project based courses as part of the curriculum.




16/8/23
Dr. Jayakumari J

Prof. & Head/ECE



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Summary of Curriculum Feedback 2022-23

The following suggestions were put forward by the Stakeholders on the curriculum of the academic year 2022-23.

- More practical introduction courses needed
- It would be very helpful if more department based topics are included in first year so that students will be more familiar with the courses.
- Give awareness about software related to circuit designing, 3D printing, CAD etc.
- Require more simulation components and programming.
- Add more number of interdisciplinary courses
- Encourage multidisciplinary projects
- Introduce necessary minor programs which enhances employability
- Miniproject gives better understanding about the final year project and its procedure
- Only one comprehensive viva course is needed in curriculum
- Updating the college curriculum to include the latest industry trends, that employers are looking for.
- More talk sessions and webinars shall be conducted.
- Try and affiliate with companies so that students will be sent to the firm by the college during the internship period.
- Hands on sessions and projects in collab with industries helps us in getting the current trends in the world and an exposure to industrial applications.
- Give more exposure to outside industries through hands on studies, seminars , workshops etc
- Provide clear idea based on industrial requirements because mostly classes are taken just to clear semester exams so students also have a mindset to just pass the examination.
- The usage of softwares like MATLAB, ANSYS, PSPICE, KEIL etc, can be included in the course to provide a better insight of the topics in real-time applications.
- There should be a support system or mentor or group to get an update on different technologies and opportunities.
- Courses that give a better insight on how to initialize a start up need to be included in curriculum
- The curriculum should include entrepreneurship courses which help the students to start their own entrepreneurial ventures.
- Students should be given more opportunity to visit more industries in core field.



- Add lab integrated courses in curriculum
- Equal importance needs to be given to both theoretical as well as technical knowledge. This will help the students to become more equipped for taking up core jobs
- Need only basic understanding about humanities courses
- Communication improvement is more important for students so focus shall be more on that, which can help students for abroad studies
- Skill development programs/courses on topics which make students industry ready need to be included in curriculum
- Give emphasis to improve communication skills that will be helpful for facing GD and interview
- Second year is better for starting skill development since students will have a lot to understand and cover about their curriculum, college, and courses.
- Focus on making the topic absolutely clear rather than teaching more than what a normal student can understand. Practical application should be taught and industrial visit must be done on a regular basis
- Curriculum can focus more on new technologies and emerging areas
- A separate period for referring library books would help students to think out of the box
- It will be good if sports based courses can be added to curriculum
- Include more Mini projects.
- Seminar can be shifted to fifth semester
- More focus shall be towards the Electrical Design Softwares

The actions taken based on the suggestions put forward by the Stakeholders are as follows:

- Hands-on sessions, Workshops are arranged by the Department association Illumina, Professional societies like IET, IEEE PES to train students in essential softwares like DIALux Lighting Design etc.,
- Inclusion of UHV course in the curriculum
- New curriculum is developed in such a way that it includes Electives in AI, Machine Learning, IoT etc. Also workshops, Add on programmes, Certificate courses on these areas are conducted so as to develop skills in students and to make them more employable
- Students are encouraged to take up Interdisciplinary projects.
- Inclusion of more electives, B. Tech Minors, B. Tech Honors in diverse specializations and emerging trends both in Core and other areas included in the Autonomy curriculum.



- Courses are selected in such a way that it is industry oriented and also it incorporates the recent trends in Electrical and Electronics Engineering. Courses on Electrical Vehicles, IoT, Industrial Automation etc. serve the purpose.
- The curriculum is updated on a regular basis, incorporating the recent advancements, feedback from stakeholders. Students are exposed to real time problems and industrial experience through Internships.
- Students are encouraged to undergo internships at renowned industries to get industrial experience.
- Skill Development Programs and Value Added courses to enhance hardware and technical skills are added as compulsory courses. Arduino, Python programming, MATLAB
- Simulation lab and Electrical network labs are also included in the curriculum
- Training and use of MATLAB, LabView softwares are promoted through the concerned courses, by the faculty handling it.
- For first semester students, a non-credit course on Communicative English is also included in the Autonomy scheme to make students practice with communication by providing them various activities.
- Courses like Professional Communication, Constitution of India, Management for Engineers, Universal Human Values are included in the Autonomy scheme from semester 2 onwards highlighting the more Humanities and Social Science components in the Engineering Curriculum.
- Through the Corporate Relations Department, Fundamental and Advanced Courses by Wadhvani Foundation are provided to students for enhancing and encouraging Entrepreneurs.
- Research groups and cells such as Control Systems, Power Electronics and Electric Vehicles are initiated to encourage research and job opportunities.
- Alumni interaction is also enhanced through activities of department association and professional bodies.
- As per the revised curriculum, micro projects are included in the laboratories from semester 3 onwards to make students practice on designing and implementation of circuits.
- Students are encouraged to do internships during the semester breaks so that they have better insight on the practical aspects of the equipment or components learned from the theoretical classes.

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DEPARTMENT OF MECHANICAL ENGINEERING
Action taken report on Curriculum feedback 2022-2023

Stakeholder	Suggestions
Students	<p>Our students suggested to incorporate the following courses and suggestions during the next curriculum revision:</p> <ul style="list-style-type: none">• Artificial Intelligence• Robotics• Computer languages• Toyota Principles of production• Basics of Data Analytics.• EV, CAD softwares, and more programming languages. Python is the best option• Personal Finances management.• Business studies and entrepreneurship• Engineering Management• Additive manufacturing
Alumni	<p>Our alumni suggested to incorporate the following courses and suggestions during the next curriculum revision:</p> <ul style="list-style-type: none">• Subjects like AMOS should be kept an elective as it should be learnt by students who are keen on learning such topics... these type of subjects will not help most students after graduation.• Machine Learning, Autonomous Driving• AI assisted cooling systems for battery packs in electric vehicles• 3D printing• AI assisted shock adjustment and traction control according to terrain.• Future industrial advancement in mechanical engineering• Basics of Project Management, Piping Engineering, Naviswork Software• *Hydraulic & Pneumatic Systems (Where the Pneumatic and Hydraulic circuits, their design controls etc in industries are studied - actually this course is provided as honours course in KTU curriculum - Fluid Power Automation);• *Control Theory (A core course in EC n EE curriculum but it is really required in the current trend of the industry),• MEMS and additive manufacturing, *Condition Monitoring (Actually it's a subject which comprises of Vibration + Tribology + Sensorics + Signal Processing + ML)• Also please bring back the subject Electrical Drives and Control for Automation which was there for 2016 curriculum, as it gave an in depth idea of Electrical machines.• Holistic Thinking and Problem Solving. This can be a module inside the Management for Engineers course.• Subjects like environmental engineering and sustainable engineering compulsory courses with credits. To drive the students in solving problems sustainably and

	<p>with a sight on the future. And again should be taught in such a way that students should see that is an essential part of the innovation and problem solving process and should be driven to think sustainably while designing.</p> <ul style="list-style-type: none"> • Subjects like project management, Product management, etc, would be beneficial as they can help the students to learn how to understand a business better and can develop some managerial skills.
<p>Experts from Industry and Academia</p>	<p>Selected experts from industry/academia suggested to incorporate the following courses and suggestions during the next curriculum revision:</p> <ul style="list-style-type: none"> • Fundamentals of Micro-Scale Heat Transfer • Advanced Heat Transfer Enhancement Technique • Introduction to CFD would be a good choice as elective subject in S6 or S7. It would be really beneficial for students going for higher education in the field of thermal engineering. • PLM and Machine learning • Mechatronics • Design for manufacturing and assembly • Fundamentals of robotics • Industrial Automation • Machine Learning • Fault diagnosis training for daily use machines • Applied robotics • Agile practices • Lean Manufacturing and Robotics Automation. • More of project based courses, exams should not be the main focus point for completing a subject. • Predictive modelling using R/Python • Data visualization using Tableau / PowerBI • Basics of Supply Chain Management • Replace programming basics with C • The programming language is rarely used • Linear optimization (Travelling salesman problem/ Assignment problem / Simplex method) • Computational Fluid Mechanics • FEM • Simulation Analysis with CAD (Assuming CAD is also available as course), various courses from Autodesk/ CATIA. • Aeronautical engineering (an overview). • FM lab hours may be used to impart knowledge and work experience on maintenance of pump (including preventive maintenance methods used in industry, methods for assembling and removing bearings etc.), mechanical seals (assembly and disassembling), couplings (types and its use), alignment of pump and motor using dial gauge and laser alignment kit. • More internships under the guidance of the college and the faculty would be beneficial to the students. The students should have a clear idea on how to put all the theory learned in class into practice by the time they pass out rather than passing out and then trying to do the same without any guidance.
<p>Faculty</p>	<p>MBCET ME faculty suggested to incorporate the following courses and suggestions during the next curriculum revision:</p> <p>:</p> <ul style="list-style-type: none"> • Industry 4.0 and digitizing Manufacturing Processes through IoT integration • Artificial Intelligence and Machine Learning • Models on Industrial Equipment Big Data

- Innovations in Electric Vehicle Engineering Technology
- Clean Energy Transformation in Automobile Industry
- Introduction to python
- Robotics Systems engineering
- Dynamic space flight
- Adaptive learning
- Six Sigma for Design

Action taken report in 2023 MED curriculum

New management courses are being offered by MED in 2023 UG curriculum

- Marketing Management
- Total Quality Management
- Material Handling & Facilities Planning
- Supply Chain & Logistics Management
- Entrepreneurship Management
- Operations Research
- Industrial Engineering and Management
- Principles of Management
- Management Information System
- Technology Management
- Advanced Decision Modelling

New elective courses offered by MED in 2023 UG curriculum under technology sector

- Data Analytics for Engineers
- Artificial Intelligence & Machine Learning
- Additive Manufacturing
- Computational Fluid Dynamics
- Hybrid and Electric Vehicle Technology
- Rapid Prototyping
- Hydrogen And Fuel Cell Technology
- Micro And Nano Manufacturing

New Industry electives offered by MED in 2023 UG curriculum

- Aerospace Engineering
- Agriculture Engineering
- Bio Medical Engineering
- Food Technology
- Marine Engineering
- Textile Engineering

It was decided to discuss the left over suggestions from the stake holders in the department curriculum constitutive cell and implement the possible one in the subsequent curriculum revisions.

14-03-2023

Pranav
14/3/23

Head of the Department