



**NEW HORIZON
COLLEGE OF ENGINEERING**

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Alumni feedback: 2013 – 2017 Batch

- Suggested to increase the number of centre of Excellence to improve placement opportunities.
- Expressed the need of mentoring in curricular, co-curricular and personal aspects of students during their study period for improving their performance in identifying potential jobs and higher education prospects.
- At-least two industrial visits in their study period to get exposure to Industry environment.
- More interactions with experts and eminent personalities through lecture sessions
- Training on development of product based projects and introduce 3 month internship in the curriculum.

Employee feedback: 2013 – 2017 Batch

- The industry readiness with innovative software programs and application development are required, hence students must specialize in multiple programming languages like C, C++, C#, java, python etc.
- Career based tracks for technical creativity and analytical thinking skills can be provided to students to solve various software related issues.
- Introduce domain specific teaching, learning curriculum from 3rd semester onwards for technical excellence in trending technologies
- Domain specific industrial visits can help students to create curiosity and exposure for industry readiness.
- Focus on Project based learning

- Exposure to open source tools
- Active participation in technical events and expose the student ability to industry experts.
- Career based tracks for technical creativity and analytical thinking skills can be provided to students to solve various software related issues.
- Buddies from college can provide inputs to current students on recent advances in research, Industry needs and area of expertise on courses like Data Structures, Algorithms, programming paradigm, useful resources in the web for self learning in coding, Tips for cracking the technical / coding round test and many more.
- Recommendations to include subjects like Essential English, Ethics and life skills for students.
- Seminars/ workshops on “How to prepare for placements, coding tips, debugging skills, technical concepts on programming” can be organised for students for smart performance.
- Focus students on projects/technical seminars on recent emerging trends during their final year.

Student Feedback: 2013 – 2017 Batch

- Selection of electives by students based on their career path.
- Frequent industrial visits can help students with good opportunities, awareness about best practices and practical working environment.
- Increase in the number of industrial visits can help students to identify their prospective area of work like software development, testing, design and automation and many more.
- For Gate and competitive exams, students suggested courses like DMML to be included in the curriculum during their initial 7th/8th semesters.
- Students requested to organize industrial visits with core companies like Infosys, TCS, VMware, SAP, IBM, Wipro, Cerner, and many more to know the advanced research and developments, core programming techniques and practical working environments to meet the needs.

- Self study topics beyond syllabus can be listed and circulated with students.
- Motivational talks on Stress management, Conflict handling, Team work, Team building and Study skills on research and developments, patenting, Entrepreneurship can strengthen ideas and provide initiative paths to students.
- With increase in number of workshops on “trending technologies and technical jobs for the next 5 years” may help students to downstream their career paths
- Quiz based on aptitude, pattern matching, hackathon can be conducted to improvise student’s attention.

Course Coordinators Feedback: 2013-2017 Batch

To enhance the curriculum and edify knowledge of the students on current modern prerequisites, the course coordinators proposed to fuse the gaps identified in the syllabus endorsed for the third, fourth, fifth, and sixth semester

- To promote the excellence and currency of the curriculum to uplift the technical skills and potential of students to find innovative ways to solve problems and to achieve success, the course coordinators suggested top-ups for the curriculum to boost the employability and equip the students to meet workplace challenges. In this regard Course coordinators proposed changes in the syllabus endorsed for the third, fourth, fifth, and sixth semester.
- The syllabus of the data structures with C can be refined as per the student placement's basic requirement.
- Trending technologies-based courses are included in the curriculum, thereby IoT, Mobile Application Development were added.
- The new edition of textbooks can be introduced to the students as suggested by the BoS members to absorb more knowledge.
- Recommendations on course outcomes and mapping with Blooms Taxonomy levels
- Suggested to use open source tools for advanced lab oriented courses other than specific programming languages.

Action plan 2018-2019 based on 2017-2018 Feedback summary:

Based on the Alumni feedback

- Identify companies that permit industrial visits and sign MoUs with them for improving placement activities.
- To strengthen mentoring process and help students in identifying their strengths and weakness.
- To conduct regular counseling sessions.
- Help the students with necessary software and guidance to take up real time projects.
- To involve alumni in the extension activities of the college/Department.
- Involve industry experts as one of the guide for final year projects
- To include the following subjects in the curriculum:
 - ✓ Professional Communication
 - ✓ Life skills for Engineers

Action plan 2018-2019 based on 2017-2018 Feedback summary:

Based on the Employee feedback

- Wide choices of electives are incorporated in the curriculum based on emerging technologies. Electives offered for students are VMware, Big Data Analytics, HP Vertica, Cisco Networking Academy, Schneider Electric, SAP next-Gen, Quest Global Engineer, and Automation Anywhere (IIoT). Labs associated with these electives enrich technical knowledge of the students.
- The industry readiness with innovative software programs and application development skills are incorporated among students. Hence students are specialized in multiple programming languages like C, C++, C#, java, python etc.
- Students have the choice to program in any programming language. No restrictions enforced on students.
- Advance courses like mobile application development, NoSQL, Internet of Things, UNIX system programming, automata theory and formal languages, file structures, User interface design, virtual reality, C# and dot net, computer graphics with OpenGL and soft computing are incorporated in the syllabus.

- Domain specific teaching - learning curriculum is introduced from 3rd semester onwards for technical excellence in trending technologies
- Good exposure to open source tools during their academic lab period.
- Active participation in technical events and expose the student ability to industry experts. Many activities like Hackathons, KSTA project proposals, Toycathon idea submissions, External Competitions, State Level Inter collegiate Tech Fest are structured for students to participate and stimulate their learning.
- In all courses, the fifth chapter – 20% of syllabus every semester is handled by Industry experts. All labs have minimum 3 experiments beyond syllabus to incorporate more curiosity and hands-on with the subject.
- Many technical events/hackathons were organized in our department and we encourage the students to actively participate in outside college.

Action Plan for 2018-19 based on 2017-18 feedback summary:

Based on the Student Feedback

- Frequent industrial visits are organized with core companies like Infosys, TCS, VMware, SAP, IBM, Wipro, Cerner, and many more to provide good opportunities and understand the advanced research and development activities, core programming techniques, awareness about best practices and practical working environment. Domain specific industrial visits help students to create curiosity and exposure for industry readiness.
- Quiz based on aptitude, pattern matching, hackathon, Brain Teaser is conducted to improvise student attention.
- For Gate and competitive exams, students suggested courses like DMML are included in the curriculum during their initial 7th/8th semesters.
- Self study topics beyond syllabus are listed and circulated with students.
- Students can selection their electives based on their career path.

Action Plan 2018-19 based on 2017-18 feedback summary:

Based on Course Coordinator feedback

- The syllabus of the data structures with C was discussed with the course coordinator and the other faculties handling the subject to refine the syllabus as per the basic requirement of the student placement.
- Microprocessor integrated lab courses were included with revised PCD lab experiments
- Trending technologies-based courses are included in the curriculum, thereby IoT, Mobile Application Development were added.
- Data analytics is incorporated as a professional elective to gain problem-solving skills in a real-time environment and to understand the technological advancements in the last couple of years that transformed the process of usage of data
- A New edition of textbooks has been introduced to the students to absorb more knowledge of the subject
- Courses like essential English, life skills for engineers, introduction to economics are introduced for students.