



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Action Taken Report on B. Tech ECE Program R 13 Feedback Implemented in R16 introduced in the AY 2016 - 17

Action taken based on the suggestions from Students:

- Q1. Course Contents of Curriculum are in tune with the Program Outcomes.
- Q2. The depth of the course content is adequate to have significant learning outcomes
- Q3. Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics.
- Q4. The practical's enable to develop experimental, design, problem solving and analysis skills of the students.
- Q5. The timely coverage of syllabus is possible in the mentioned number of hours.
- Q6. The Curriculum providing opportunity towards self-learning to realize the expectations.
- Q7. Rate the capability of the curriculum for improving ethical values in students
- Q8. The number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students
- Q9. Electives enable the passion to learn new technologies in emerging area

Analysis of Overall Feedback given by the Students on R 13

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	64.5	35.5	0	0	0	4.645	Excellent
Q2	55.2	44.8	0	0	0	4.552	Excellent
Q3	41.2	58.8	0	0	0	4.412	Excellent
Q4	40.3	59.7	0	0	0	4.403	Excellent
Q5	39.5	60.5	0	0	0	4.395	Excellent
Q6	35.4	64.6	0	0	0	4.354	Excellent
Q7	39.4	60.6	0	0	0	4.394	Excellent
Q8	32.9	67.1	0	0	0	4.329	Excellent
Q9	40	60	0	0	0	4.4	Excellent

Itemized responses given to the Suggestions of Students

Suggestion: Electromagnetic field theory and transmission lines and wave guides courses can be merge such that students may get a chance to learn another course.

Action Taken: Both courses were merged with losing the importance of the courses and included the additional advanced course.

Suggestion: Add more hours for laboratory courses.

Action Taken: Increased number of hours for laboratory courses by integrating theory with lab.

Suggestion: Courses like java and other programing courses should include in the curriculum.

Action Taken: The students can study courses like Java and other programing courses by opting minor as IT.

Suggestion: Advanced courses like IoT, perl and python should include in Elective pool.

Action Taken: The courses like IoT, perl and python these are advanced courses and added in elective pool.

Suggestion: Give more time for practical and hands-on.

Action Taken: In core courses minor projects are introduced to make the student's industry ready.

Suggestion: Give more time for campus recruitment training.

Action Taken: Introduced employability and skill-based courses in every semester to make the student's industry ready.

Suggestion: Technical stuff is good, but there must be improvement in the communication skills and management skills.

Action Taken: To get the interdisciplinary knowledge open electives courses are introduced in the field of management and humanities.

Suggestion: The course on ARM processors and Internet of things should be in Professional Elective such that every student must undergone to advanced courses.

Action Taken: The concepts of ARM processors included in Microcontrollers course and IoT is included in Professional Elective.

Suggestion: Allocate Credits for the online courses to learn in multiple areas as well as to grow professionally.

Action Taken: Offered Credits for online Courses (NPTEL, Swayam, Coursera, FDX) to inculcate life learning skills over the students. Honors degree is introduced for advanced learners to have advanced courses in the field of information technology.

Action taken based on the suggestions from Alumni:

- Q1. Curriculum has paved a good foundation in understanding the basic engineering concepts
- Q2. Course Contents of Curriculum are in tune with the Program Outcomes
- Q3. Curriculum imparted all the required Job Oriented Skills
- Q4. The offering of the electives in relation to the Technological advancements and serve the needed in the industry
- Q5. Tools and Technologies learnt during laboratory sessions has enriched the skills
- Q6. Ability to compete with your peers from other Universities
- Q7. The curriculum relevant to job and future aspirations

Analysis of Overall Feedback given by the Alumni on R 13

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	45.6	54.4	0	0	0	4.456	Excellent
Q2	69.1	30.9	0	0	0	4.691	Excellent
Q3	45.6	54.4	0	0	0	4.456	Excellent
Q4	69.1	30.9	0	0	0	4.691	Excellent
Q5	45.6	54.4	0	0	0	4.456	Excellent
Q6	45.6	54.4	0	0	0	4.456	Excellent
Q7	50	50	0	0	0	4.5	Excellent

Itemized responses given to the suggestions of Alumni

Suggestion: Advanced courses like ARM processors and Internet of things should be in Professional Core such that every student must undergone to advanced courses for best employment in core and allied industries.

Action Taken: Introduced Artificial Neural Networks and Artificial Intelligence as a professional elective. Based on the suggestions the content of AI is revised.

Suggestion: More practical and industry oriented courses are required.

Action Taken: Introduced IoT, ARM Processors stream of courses that contains Emerging Technologies as professional electives.

Suggestion: Introduce open elective course and there must be improvement in the communication skills and management skills.

Action Taken: To get the interdisciplinary knowledge open electives courses are introduced in the field of management and humanities.

Suggestion Software courses like CPP and Java is missed in the curriculum, these courses will give more potential to enter into the software industry.

Action Taken: The students can study courses like Java and other programming courses by opting open elective as CSE/IT.

Suggestion: Improve the skills by allocating more time for laboratories in the curriculum.

Action Taken: Increased number of hours for laboratory courses by integrating theory with lab.

Action taken based on the suggestions from Faculty:

Q1. Curriculum designed is in tune with program Vision and Mission

Q2. Course Contents of Curriculum in tune with the Program Outcomes

Q3. The depth of the course content is adequate to have significant learning outcomes.

Q4. Curriculum is sufficient to bridge the gap between industry standards /current global scenarios and academics

Q5. The practical's enable to develop experimental, design, problem solving and analysis skills of the students

Analysis of Overall Feedback given by the Faculty on R 13

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	44.4	55.6	0	0	0	4.444	Excellent
Q2	48.1	51.9	0	0	0	4.481	Excellent
Q3	37	63	0	0	0	4.37	Excellent
Q4	29.6	70.4	0	0	0	4.296	Excellent
Q5	37	63	0	0	0	4.37	Excellent

Itemized responses given to the suggestions of Faculty

Suggestion: Courses like Internet of things (IoT) and advanced controllers included in elective pool.

Action Taken: The concepts of ARM processors included in Microcontrollers course and IoT is included in Professional elective.

Suggestion: Flexibility in curriculum and need for skill oriented courses was suggested. The curriculum has been designed to make students industry ready by imparting analytical and reasoning, language and soft skills in addition to technical competencies, as desired by the industry.

Action Taken: Employability and skill-based courses were introduced in every semester to make the students industry ready.

Suggestion Digital communications subject need to be modified in accordance with gate and more practical oriented

Action Taken: Digital Communication course is modified in accordance with Gate

Suggestion: Microprocessors and micro controllers course ARM Controller contents should be added in the course.

Action Taken: Advanced concepts ARM controllers are added in elective pool.

Suggestion: Embedded Linux, ARM CORTEX-M3 and LPC 2148 Controllers concepts should be add in the Microcontrollers for embedded systems course.

Action Taken: Advanced Microcontrollers, Real Time Operating Systems, Embedded C, are included in microcontroller's course and Embedded Linux is added in professional elective pool.

Suggestion: It is better to include Embedded Systems and RTOS as a new course in the curriculum

Action Taken: Embedded Systems and RTOS is added in professional elective pool.

Action taken based on the suggestions from Employers:

- Q1. Course Contents of Curriculum are in tune with the Program Outcomes
- Q2. Curriculum helps in bridging gap between industry and academic institution.
- Q3. Applicability of the domains and the tools used for designing the experiments in terms of existing practices in the Electronics and Allied Industry.
- Q4. Professional and Open Electives are in relation to the Technological advancements and fulfilling the needs of electronics and allied industries.
- Q5. Curriculum develops skills to model and analyse the electronics and allied industrial issues.

Analysis of Overall Feedback given by the Employers on R 13

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	60.6	36.4	3	0	0	4.576	Excellent
Q2	66.7	27.3	6.1	0	0	4.61	Excellent
Q3	42.4	48.5	9.1	0	0	4.333	Excellent
Q4	75.8	18.2	6.1	0	0	4.701	Excellent
Q5	69.7	24.2	6.1	0	0	4.636	Excellent

Itemized responses given to the suggestions of Employers

Suggestion: Include Embedded Systems and IoT related fundamental courses in the curriculum. Thereby students can understand the internal architecture of microprocessors and microcontrollers.

Action Taken: Introduced Embedded Systems as professional elective steam with necessary IOT course in Professional elective.

Suggestion: Better to include each semester students has to undergone to some small projects.

Action Taken: Minor projects are included in every semester.

Suggestion: Need to focus more on development of IOT applications

Action Taken: IOT was introduced as a Professional elective and advanced laboratory experiments are included to design the applications.

Suggestion: Motivate the students to focus on real time problems. Introduce the trending technologies as a laboratory subject.

Action Taken: As per suggestions many advanced courses are included in elective pool.

Action taken based on the suggestions from Parents:

Q1. Your ward is sensitized towards issues like gender equality, environment and sustainability, ethics and values etc., through relevant courses in the curriculum

Q2. The academic flexibility embedded in the curriculum provides opportunities to students to pursue their interest by choosing from a vast number of pathways / electives from own area/specialization as well as from other areas.

Q3. Competency of your ward is on par with the students from other Universities/Institutes.

Q4. The curriculum has been designed to make your ward industry ready by imparting analytical and reasoning, language and soft skills in addition to technical competencies, as desired by the electronics and allied industries.

Q5. Course Curriculum is of the global standard and is in tune with the needs of electronics and allied industries.

Analysis of Overall Feedback given by the Parents on R 13

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	62.5	37.5	0	0	0	4.625	Excellent
Q2	40.6	46.9	12.5	0	0	4.281	Excellent
Q3	31.3	50	18.8	0	0	4.129	Excellent
Q4	28.1	53.1	18.8	0	0	4.093	Excellent
Q5	37.5	40.6	21.9	0	0	4.156	Excellent

Itemized responses given to the suggestions of Parents

Suggestion: Give more importance for advanced courses in curriculum.

Action Taken: Advanced courses are included the professional elective.

Suggestion: The curriculum should be more practical oriented than theory and suitable for project-oriented learning

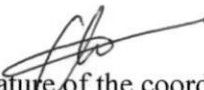
Action Taken: Lab integrated with Theory and Minor projects along with core courses transform the students as industry ready.

Suggestion: Add employability related courses in curriculum

Action Taken: Introduced employability and skill-based courses in every semester to make the student's industry ready.

Suggestion: The curriculum must improve the placements opportunities

Action Taken: Modular courses are offered as a one-credit course and every student must undergo at least one modular course. design & analysis tools for career development.


Signature of the coordinator


HoD, ECE