

**VIGNAN'S**

Foundation for Science, Technology &amp; Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING****Action Taken Report on B. Tech CSE Program R 19 Feedback****Implemented in R21 introduced in the AY 2021 - 22*****Action taken based on the suggestions from Students:***

- Q1.Course Content of Curriculum is in tune with the Program Outcomes  
Q2. Curriculum is designed to improve Problem Solving Skills and Core competencies  
Q3.Courses placed in the curriculum serves the needs of both advanced and slow learners  
Q4.Contact Hour Distribution among the various Course Components (LTP) is Satisfactory  
Q5.Electives indulge the passion to learn new technologies in emerging areas  
Q6.Curriculum promotes self learning to realize the expectations  
Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfactory  
Q8.Laboratory sessions are sufficient to improve the technical skills of students  
Q9.Inclusion of Minor Project/ Mini Projects improves the technical competency and leadership skills among the students

**Analysis of Overall Feedback given by the Students on R 19**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	44	33.8	16.7	3.8	0.9	4.138	Excellent
Q2	43.9	32.8	17.4	4	1.2	4.121	Excellent
Q3	46.5	32.6	15.1	3.5	1.5	4.167	Excellent
Q4	48.7	31	15.4	3.1	1	4.209	Excellent
Q5	47.9	30.9	14.8	3.2	2.5	4.164	Excellent
Q6	48.7	29	15.5	4.9	1.2	4.17	Excellent
Q7	50.1	31.9	13.1	3.2	0.9	4.247	Excellent
Q8	46.7	27.8	15.8	5.9	3.1	4.07	Excellent
Q9	52	27.5	13	4.6	2.2	4.204	Excellent

**Itemized responses given to the Suggestions of Students**

**Suggestion:** Artificial intelligence should have lab component.

**Action Taken:** In R 21, we introduced Lab component for Machine Learning Course inline with the experiments of Artificial Intelligence.

**Suggestions:** Organise good number of workshops to improve hands on

**Action Taken:** Organized good number of the add-on and modular courses by industry experts. Encouraged the students to participate in global coding competitions and online certification courses.

**Suggestion:** In the course Microcontrollers at least one unit Concepts of 8051 controller need to add for a better understanding of ARM controllers.

**Action Taken:** Suggestions accepted.

**Suggestion:** More courses for industrial needs are highly appreciable.

**Action Taken:** In R21, more emphasis was given to emerging courses of AI&ML and Cyber Security streams and added good number of courses as electives.

**Suggestion:** Please include more seminars and less weekend exams

**Action Taken:** Introducing of the periodic tests is the one which shows that there is a continuous improvement in attainment of course outcomes and program outcomes. Hence there is no possibility in reducing weekend tests.

**Action taken based on the suggestions from Alumni:**

- Q1. Curriculum has paved a good foundation in understanding the basic engineering concepts
- Q2. Course Content of Curriculum is in tune with the Program Outcomes
- Q3. Curriculum imparted all the required Job Oriented Skills
- Q4. Professional and Open Electives of Curriculum improves the technical skills needed to serve in the industry
- Q5. Tools and Technologies learned in laboratory sessions enriches the problem-solving skills
- Q6. Ability to compete with your peers from other Universities
- Q7. Current Curriculum is superior to your studied Curriculum

**Analysis of Overall Feedback given by the Alumni on R 19**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	19.4	72.2	8.3	0	0	4.107	Excellent
Q2	25	50	25	0	0	4	Excellent
Q3	25	38.9	36.1	0	0	3.889	Very Good
Q4	25	61.1	13.9	0	0	4.111	Excellent
Q5	30.6	41.7	27.8	0	0	4.032	Excellent
Q6	25	38.9	36.1	0	0	3.889	Very Good
Q7	30.6	58.3	11.1	0	0	4.195	Excellent

**Itemized responses given to the suggestions of Alumni**

**Suggestion:** Introduce courses related to present technologies.

**Action Taken:** In R21, more emphasis was given to emerging courses of AI&ML and Cyber Security streams and added good number of courses as electives.

**Suggestion:** Introduce AI as Regular Course

**Action Taken:** AI is introduced under professional core.

**Suggestion:** Replace outdated courses with trending courses, only four course are suggested in final year.

**Action Taken:** We designed our course curriculum in such a way to meet the required number of credits and eligible for receiving the degree. However, in R21 curriculum number of courses in final year are reduced to promote self-study.

**Suggestion:** Introduce courses to improve communication skills more.

**Action Taken:** Technical Seminar Courses were introduced as well as seminar presentations were integrated in daily teaching-learning.

**Action taken based on the suggestions from Faculty:**

- Q1. Course Content of Curriculum is in tune with the Program Outcomes
- Q2. Course Contents enhance the Problem-Solving Skills and Core competencies



- Q3.Allocation of Credits to the Courses are satisfactory
- Q4.Contact Hour Distribution among the various Course Components (LTP) is Justifiable
- Q5.Electives imparts the passion to learn new technologies in emerging areas
- Q6.Curriculum encourages Self learning
- Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses is satisfactory
- Q8.Courses with laboratory sessions are sufficient to improve the technical skills of students
- Q9.Inclusion of Minor/ Mini Projects improved the technical competency and leadership skills among the students

**Analysis of Overall Feedback given by the Faculty on R 19**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	68.8	18.8	8.3	0	2.1	4.462	Excellent
Q2	74	24	0	0	0	4.66	Excellent
Q3	59.4	38.5	0	0	0	4.51	Excellent
Q4	64.6	27.1	6.3	0	0	4.503	Excellent
Q5	56.3	41.7	0	0	0	4.483	Excellent
Q6	61.5	21.9	14.6	0	0	4.389	Excellent
Q7	74	22.9	0	0	1	4.626	Excellent
Q8	59.4	25	13.5	0	0	4.375	Excellent
Q9	61.5	20.8	0	15.6	0	4.219	Excellent

**Itemized responses given to the suggestions of Faculty**

**Suggestion:** Basic operational concepts, pipelining not included in Computer Organization and Architecture Course Syllabus. It is better to include in the syllabus as those topics are very important in Gate point of view.

**Action Taken:** In R21 course content of Computer Organization and Architecture is revised and we introduced Basic operational concepts, Stack organization and Pipelining concepts.

**Suggestion:** In R19 Python Programming Course Database Connectivity, Web Services concepts are not covered, it's better to include.

**Action Taken:** In R21 revision we included Database Connectivity, Web Services, GUI programming in Python Programming course.

**Suggestion:** Programming subject is very important for CSE and IT students. Better to change lab component for C programming in two semesters.

**Action Taken:** In R21 we included more programming exercises for PPS-I in B. Tech I Year I sem and PPS-II in B. Tech I Year II sem.

**Suggestion:** Better to revise lab component for Web Technologies.

**Action Taken:** In R21 Web Technologies lab component was changed.

**Action taken based on the suggestions from Employers:**

Q1.Course Content of Curriculum is in tune with the Program Outcomes

Q2.Curriculum provides the scope for improving the required skills of IT and IT enabled Industry Demands

- Q3. Professional and Open Electives are fulfilling the ever- evolving needs of IT industries
- Q4. Tools and technologies described in the curriculum are enough to design and develop new applications of IT Industry.
- Q5. Problem Solving and Soft Skills acquired by the students through the curriculum will enable them to be placed in IT Industry.

**Analysis of Overall Feedback given by the Employers on R 19**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	80.4	10.7	0	0	0	4.448	Excellent
Q2	64.3	26.8	0	0	0	4.287	Excellent
Q3	71.4	19.6	0	0	0	4.354	Excellent
Q4	51.8	37.5	1.8	0	0	4.144	Excellent
Q5	85.7	5.4	0	0	0	4.501	Excellent

**Itemized responses given to the suggestions of Employers**

**Suggestion:** Better to include Hadoop API for Map Reduce Framework in Big Data & Analytics course.

**Action Taken:** In R21 revision we included A Weather Dataset. Understanding Hadoop API for Map Reduce Framework (Old and New) in Big Data & Analytics course.

**Suggestion:** Students also need to focus on communication and presentation skills.

**Action Taken:** In R21 Curriculum courses are provided to improve communication and presentation skills

**Suggestion:** Please include GSM Protocol Architecture, Bluetooth Architecture in Mobile Computing course.

**Action Taken:** In R21 Curriculum we included GSM Protocol Architecture, Bluetooth Architecture in Mobile Computing course.



HOD, CSE