



**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

**DEPARTMENT OF INFORMATION TECHNOLOGY AND COMPUTER APPLICATIONS**

**Action Taken Report on B.Tech. IT Program R19 & R21 Feedback Implemented in R22 introduced in the AY 2022 - 23**

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

- Q1.Course Contents of Curriculum are in tune with the Program Outcomes  
Q2.Course Contents are designed to enable 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 satisfiable  
Q5.Electives have enabled the passion to learn new technologies in emerging areas  
Q6.Curriculum is providing opportunity towards Self learning to realize the expectations  
Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable  
Q8.Laboratory sessions are sufficient to improve the technical skills of students  
Q9.Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students

**Analysis of Overall Feedback given by the Students on R19 & R21**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade     |
|------------|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1         | 77.5           | 10.4  | 8.3      | 0.3      | 0.3               | 4.549       | Excellent |
| Q2         | 75.8           | 12.8  | 5.9      | 2.1      | 0.3               | 4.524       | Excellent |
| Q3         | 79.2           | 10.7  | 5.2      | 1.4      | 0.3               | 4.575       | Excellent |
| Q4         | 81             | 8.7   | 5.5      | 1        | 0.7               | 4.59        | Excellent |
| Q5         | 81.3           | 9.7   | 3.8      | 2.1      | 0                 | 4.609       | Excellent |
| Q6         | 79.6           | 12.8  | 3.8      | 0.3      | 0.3               | 4.615       | Excellent |
| Q7         | 80.3           | 11.4  | 3.8      | 1.4      | 0                 | 4.613       | Excellent |
| Q8         | 80.3           | 8.7   | 6.6      | 1.4      | 0                 | 4.589       | Excellent |
| Q9         | 80.6           | 10    | 4.8      | 1.4      | 0                 | 4.602       | Excellent |

**Itemized responses to the Suggestions of Students**

**Suggestion:** Emphasis Problem-solving skills through programming.

**Action Taken:** Introduced basic and advanced coding competency courses in first and second year in the programme.

**Suggestion:** Introduce web application development courses in the curriculum.

**Action Taken:** Web Technologies course with 3 credits is offered in the first year II semester.

**Suggestion:** Give more weightage to assignments and practices of the course.

**Action Taken:** Increased the weightage for formative assessment of course and in particular, 60 marks are allocated to formative assessment of each course.

**Suggestion:** Enable the life log learning.

**Action Taken:** Students can opt interdisciplinary courses in assorted nature and allows credits transfer from MOOC platform.

**Suggestion:** Increasing Lab Hours and Implementing Learn by Doing Practice

**Action Taken:** Every course must be either in transaction based or practice based course in the curriculum.

**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. Professional and Open Electives of Curriculum served the technical advancements needed to serve in the industry
- Q5. Tools and Technologies learnt during laboratory sessions has enriched 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 R19**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade     |
|------------|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1         | 95.1           | 2.4   | 0        | 0        | 0                 | 4.851       | Excellent |
| Q2         | 93.9           | 3.7   | 0        | 0        | 0                 | 4.843       | Excellent |
| Q3         | 93.9           | 3.7   | 0        | 0        | 0                 | 4.843       | Excellent |
| Q4         | 95.1           | 1.2   | 0        | 0        | 1.2               | 4.815       | Excellent |
| Q5         | 97.6           | 0     | 0        | 0        | 0                 | 4.88        | Excellent |
| Q6         | 95.1           | 0     | 2.4      | 0        | 0                 | 4.827       | Excellent |
| Q7         | 96.3           | 0     | 1.2      | 0        | 0                 | 4.851       | Excellent |

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

**Suggestion:** Offer industry oriented and web development courses.

**Action Taken:** R22 curriculum is offering web technologies, open source web technologies, semantic web and social networks, advanced web technologies and full stack development.

**Suggestion:** Give more weightage for practice sessions than theory part.

**Action Taken:** Every course is designed either practice oriented or tutorial.

**Suggestion:** Include more importance in problem-solving skills in curriculum.

**Action Taken:** Basic coding and advanced coding competency courses are offered in the curriculum to impart the problem-solving skills.

**Suggestion:** Freedom to select advanced courses from elective courses.

**Action Taken:** Professional electives are offered from 2<sup>nd</sup> year 2<sup>nd</sup> semester to select advanced courses in the field of computer science and information technology.

**Suggestion:** Introduce the building blocks of machine learning and big data analytics.

**Action Taken:** In R22 curriculum, there is a stream of courses in artificial intelligence and machine learning.

**Suggestion:** Motivate the student to implement full stack project development using emerging technologies.

**Action Taken:** Capstone projects are suggested to develop in programming oriented courses in the curriculum.

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

Q1.Course Contents of Curriculum are 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 satisfiable

Q4.Contact Hour Distribution among the various Course Components (LTP) is Justifiable

Q5.Electives enable the passion to learn new technologies in emerging areas

Q6.Curriculum is providing opportunity towards Self learning

Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses is satisfiable

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 R19 & R21**

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade     |
|------------|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1         | 91.1           | 4.4   | 0        | 0        | 0                 | 4.731       | Excellent |
| Q2         | 88.9           | 6.7   | 0        | 0        | 0                 | 4.713       | Excellent |
| Q3         | 91.1           | 4.4   | 0        | 0        | 0                 | 4.731       | Excellent |
| Q4         | 88.9           | 2.2   | 2.2      | 2.2      | 0                 | 4.643       | Excellent |

|           |      |     |     |   |   |       |                  |
|-----------|------|-----|-----|---|---|-------|------------------|
| <b>Q5</b> | 91.1 | 4.4 | 0   | 0 | 0 | 4.731 | <b>Excellent</b> |
| <b>Q6</b> | 91.1 | 4.4 | 0   | 0 | 0 | 4.731 | <b>Excellent</b> |
| <b>Q7</b> | 93.3 | 2.2 | 0   | 0 | 0 | 4.753 | <b>Excellent</b> |
| <b>Q8</b> | 88.9 | 4.4 | 2.2 | 0 | 0 | 4.687 | <b>Excellent</b> |
| <b>Q9</b> | 88.9 | 6.7 | 0   | 0 | 0 | 4.713 | <b>Excellent</b> |

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

**Suggestion:** Introduce the assignment oriented targets in curriculum.

**Action Taken:** Curriculum is giving the more freedom to the student for self-learning and lifelong learning to solve the creative level assignments of each course.

**Suggestion:** Better to offer modular oriented syllabus for every course.

**Action Taken:** Covering each course in breadth and depth level of content ensures a comprehensive understanding of the subject matter.

**Suggestion:** Allocate the more weightage for formative assessment.

**Action Taken:** 60% of the weightage is given for formative assessment of each course.

**Suggestion:** Allocate the more number of hours for laboratory practice.

**Action Taken:** For every must fall in either transaction or practice oriented. Categorizing courses as transaction-oriented or practice-oriented can help to provide a balanced and well-rounded curriculum.

**Suggestion:** Discussion session is required for every course to assess the understanding level of course.

**Action Taken:** Per week one discussion hour is given to each course to get the feedback on understanding of the course content covered in that week and to assess the understanding level of the student.

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

Q1.Course Contents of Curriculum are 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 R19

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade     |
|------------|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1         | 100            | 0     | 0        | 0        | 0                 | 5           | Excellent |
| Q2         | 100            | 0     | 0        | 0        | 0                 | 5           | Excellent |
| Q3         | 100            | 0     | 0        | 0        | 0                 | 5           | Excellent |
| Q4         | 100            | 0     | 0        | 0        | 0                 | 5           | Excellent |
| Q5         | 100            | 0     | 0        | 0        | 0                 | 5           | Excellent |

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

**Suggestion:** Incorporate the interdisciplinary nature of courses.

**Action Taken:** Student can opt open elective/minors from various departments to get exposure on other engineering branch courses.

**Suggestion:** Introduce the industry oriented courses to make the students industry ready.

**Action Taken:** Introduced web application development, one modular course taught by industrial personnel, and full stack development (end to end application development framework) to make the students industry ready.

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

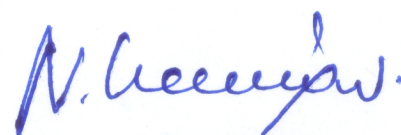
**Action Taken:** Including the target of presenting assignments with justification of the solution in formative assessments is an excellent way to enhance student's communication and critical thinking skills. This was included in R22 curriculum for every course.

**Suggestion:** Add employability courses like machine learning, digital marketing, cloud computing in industry prospective.

**Action Taken:** Introduced cloud computing, machine learning and internet of things as professional core in the curriculum.

**Suggestion:** More practical exposure is required.

**Action Taken:** By maintaining an equal weightage for theory and practical courses, it can ensure that students develop a strong foundation of knowledge while gaining the practical skills necessary to excel in the web development industry.



HOD, IT & CA

HEAD

Department of IT  
IAN'S FOUNDATION FOR SCIENCE.  
TECHNOLOGY AND RESEARCH  
(Deemed to be UNIVERSITY)

W. 01-41-01-522 2-12 2018