

**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

DEPARTMENT OF CIVIL ENGINEERING**Action Taken Report on M. Tech Structural Engineering Program R20 Feedback Implemented in R22 introduced in the AY 2022-23*****Action taken based on the suggestions from Students:***

- Q1. The Course Contents of M. Tech Structural Engineering Curriculum are in tune with the Program Outcomes.
- Q2. The Course Contents are designed to enrich laboratory skills and core competencies.
- Q3. Courses offered 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. The Electives have enabled the passion to learn new technologies in emerging areas of Structural Engineering.
- Q6. The Curriculum is providing opportunity towards Self learning to realize the expectations
- Q7. The composition of theory and lab courses and year-long internship is a right mix and satisfiable.
- Q8. No. of Laboratory Sessions Integrated with Theory Courses have been sufficient to improve the technical as well as practical skills in Structural Engineering
- Q9. Student Orientation program and Research Methodology and Year-long internship offered in Structural Engineering have enhanced the technical competency and leadership skills in the management of civil related firms.

Analysis of Overall Feedback given by the Students

	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	50	50	0	0	0	4.5	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	100	0	0	0	0	5	Excellent
Q6	100	0	0	0	0	5	Excellent
Q7	100	0	0	0	0	5	Excellent
Q8	100	0	0	0	0	5	Excellent
Q9	50	50	0	0	0	4.5	Excellent

Itemized responses given to the Suggestions of Students

Suggestion: Increase lab hours and more realistic practical theory should be implemented.

Action Taken: In M. Tech R22 curriculum each course is integrated with either practice or transactions. Moreover, in T2 assessment students are expected to perform small project on T1 assessment questions for better understanding.

Suggestion: In R22 curriculum a pool of 17 elective courses were introduced in diversified fields of Structural Engineering. Out of 17 courses, 15 courses are new and in emerging areas of Structural Engineering.

Action taken based on the suggestions from Alumni:

Q1. The Curriculum has paved a good foundation in understanding the basic concepts in Structural Engineering.

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

Q3. Curriculum has imparted all the required Job Oriented Skills

Q4. Electives of Curriculum have served the technical advancements needed to serve the requirements of existing construction Industry Practices and Codal Provisions.

Q5. Tools and Technologies learnt during laboratory sessions has enriched the required practical knowledge to serve in industry.

Q6. Competing with your peers from other Institutions.

Q7. Current Curriculum meets the present industry demands.

Analysis of Overall Feedback given by the Alumni

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	90	10	0	0	0	4.9	Excellent
Q2	96.7	3.3	0	0	0	4.967	Excellent
Q3	93.3	6.7	0	0	0	4.933	Excellent
Q4	73.3	26.7	0	0	0	4.733	Excellent
Q5	66.7	33.3	0	0	0	4.667	Excellent
Q6	90	10	0	0	0	4.9	Excellent
Q7	93.3	6.7	0	0	0	4.933	Excellent

Itemized responses given to the suggestions of Alumni

Suggestion: Introduce more courses relevant to industry orientation.

Action Taken: In R22 curriculum industry oriented courses namely Advanced Reinforced Concrete Design, Advanced Composite Structures, Rehabilitation of Structures, Seismic Evaluation and Retrofitting of Structures, Advanced Pre-Stressed Concrete were introduced.

In addition, audit courses namely Employment Orientation Program and Research Methodology and IPR were also introduced to train students on IPR policies.

Suggestion: Add more practices in the curriculum.

Action Taken: R22 has been redesigned to inculcate concept oriented and practice based learning in which a dedicated practice sessions and continuous assessment will be carried out.

Action taken based on the suggestions from Faculty:

- Q1.The Course Contents of Curriculum are in tune with program Vision and Mission.
- Q2.Course Contents along with laboratory skills will enhance Core competencies and employability skills.
- Q3.Allocation of Credits to the Courses are Satisfiable.
- Q4.Contact Hour Distribution among the various Course Components (LTP) is Satisfiable.
- Q5.Electives enable the passion to learn new technologies in emerging areas of Structural Engineering.
- Q6.Curriculum is providing opportunity towards Self learning to realize the expectations.
- Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses are Satisfiable.
- Q8.Number of theoretical courses and laboratory sessions offered are sufficient to improve the technical skills of students.
- Q9.The year-long internship will improve the technical and professional competency and leadership skills among the students.

Analysis of Overall Feedback given by the Faculty

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	5	Excellent
Q2	85.7	14.3	0	0	0	4.857	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
Q6	100	0	0	0	0	5	Excellent
Q7	100	0	0	0	0	5	Excellent
Q8	100	0	0	0	0	5	Excellent
Q9	100	0	0	0	0	5	Excellent

Itemized responses given to the suggestions of Faculty

Suggestion: Practice sessions for all the courses are required for effective learning.

Action Taken: In R22 curriculum all courses are integrated with either practice or transactions to enhance hands on experience for students.

Suggestion: Lecture student interaction should be enhanced.

Action Taken: To enhance students interaction audit courses namely Employment Orientation Program and Research Methodology and IPR were introduced. In addition, 2 credits were allocated for Teaching Activity of Students.

Action taken based on the suggestions from Employers:

- Q1. The Course Contents of Curriculum are in tune with program Outcomes.
- Q2. The relevance of the Course Contents is applicable with the analysis, design and rehabilitation in construction field.
- Q3. The professional electives and Open Electives offered to students are in-line with the technology advancements in Structural Engineering program.
- Q4. Applicability of the tools and technologies described in the curriculum will be enough to practice in industry.
- Q5. Student Orientation program, Research Methodology and year-long internship acquired by the students through the course contents will enable them to be placed in MNC

Analysis of Overall Feedback given by the Employers

	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: Include industry involvement in academic activities.

Action Taken: In R22 curriculum of M. Tech Structural Engineering program is well balanced curriculum and introduced good many number of courses industry oriented courses. Industry personnel will be involved in academic activities in the form of Guest lectures, Value Added Courses.

Suggestion: Include minimum one or two weeks industry training in Semester break followed by report submission.

Action Taken: One-year Internship/Project was incorporated after second semester.


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