VIGNAN'S
Foundation for Science, Technology & 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 16 Feedback
Implemented in R19 introduced in the AY 2019 - 20

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 16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	49	36.5	9.9	2.7	1.8	4.279	Excellent
Q2	41.5	39.4	17.7	1	0.5	4.207	Excellent
Q3	33.2	42.3	17.1	4.4	3.1	3.984	Very Good
Q4	28.3	36.5	27.1	3.7	4.4	3.806	Very Good
Q5	32.3	44.3	16.4	3	3.9	3.978	Very Good
Q6	32.9	38	21.6	4	3.5	3.928	Very Good
Q7	31.1	49	14.7	2	3.2	4.028	Excellent
Q8	28	50.2	14.9	4.3	2.7	3.968	Very Good
Q9	34.4	38.4	17.9	4.6	4.6	3.931	Very Good

Itemized responses given to the Suggestions of Students

Suggestion: Artificial intelligence should have lab component.

Action Taken: In R19 we introduced Practical Labs for Artificial Intelligence, Competitive Coding, Mobile Ad-hoc networks, IOT.

Suggestion: Introduce AI and ML course.

Action Taken: In R19 more importance was given for Problem Solving through PPS-I & PPS-II. Courses which imparts the knowledge on current technology like Artificial Intelligence, Competitive Coding, Machine Learning and Deep Learning are introduced

Suggestion: Please include current programming languages like python, BDA and R programming as core subjects

Action Taken: In R19 we introduced many programming languages to develop programming skills.

Suggestion: All minor projects should be replaced with one mini project per each semester so that students can go out with good projects.

Action Taken: In R19 curriculum, Intra-disciplinary Projects and inter- departmental Projects which requires the knowledge from two or more courses are introduced.

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: Need to improve other courses like Android, Hadoop

Action Taken: Enrichment of Big Data Analytics through which student will be able to familiar with Hadoop, Modular courses on Hadoop are introduced in R16. Android related course introduced in R19.

Suggestion: When we compared to outside world we are far away from those for CSE people. There are some subjects which are really not useful instead of that there are many subjects where we students are lagging with other Universities, one of it is python.

Action Taken: In R19, Python was introduced.

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.

Suggestion: Remove minor projects for each subject. There is no enough time to manage academics and learn new technologies. We have no time to learn other courses. All the minor projects increase stress levels and those are no enough to put in resume

Action Taken: As industry is expecting more hands on skills, it is mandate for introducing of minor projects.

Action taken based on the suggestions from Alumni:

Q1. Curriculum provides strong foundation for understanding the basic engineering concepts

Q2. Course Content of Curriculum is in tune with the Program Outcomes

Q3. Curriculum imparts all the skills required for Job

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 16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	55.6	36.5	3.2	4.8	0	4.432	Excellent
Q2	50.8	25.4	17.5	6.3	0	4.207	Excellent
Q3	47.6	36.5	14.3	1.6	0	4.301	Excellent
Q4	31.7	41.3	23.8	3.2	0	4.015	Excellent
Q5	44.4	42.9	9.5	3.2	0	4.285	Excellent
Q6	30.2	65.1	0	4.8	0	4.21	Excellent
Q7	55.6	39.7	0	4.8	0	4.464	Excellent

Itemized responses given to the suggestions of Alumni

Suggestion: Curriculum should be suitable for Higher studies. And encourage students towards higher studies.

Action Taken: Our curriculum is on par with AICTE curriculum which is well suited for industry and higher education. Organizing add-on and modular courses by industry experts in mid of course curriculum to enhance the student's skill set.

Suggestion: Organize good number of workshops to improve hands on

Action Taken: APPSSDC conducted additional courses like ALEXA and IOT hands on Workshop.

Suggestion: Replace outdates 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 R19 curriculum, 4th year consisting of 4 subjects only.

Suggestion: Including more lab sessions for big data ...as there is requirement in IT sector and coming out of college with hands on experience is really useful.

Action Taken: Big Data Analytics Theory and Lab components are already introduced in R16 and R19 curriculum. In R19 curriculum syllabus has enhanced as per industry requirements

Suggestion: Explore the students to the practical world, make them to do certification courses or teach them courses and try them to get the certification in that like AWS, Devops..etc. Try to give more practical related work and make them to stick to it until they completed, add deadlines.

Action Taken: In R19 curriculum NPTEL certification is mandatory to student, Additional certification courses for skill development are introduced.

Suggestion: Data science Machine Learning, Big Data and AWS may be these are few booming technologies. Try to assign mini projects to the students by the department and include the latest technologies so that they will try to learn and get an practical exposure while they are performing (Python, Angular, Reactjs..etc)

Action Taken: In R19 curriculum Machine Learning along with minor project will be assigned to the student and also introduced Deep Learning as Department Elective

Suggestion: Our Curriculum contains all the inputs required for the latest technology but we fail at implementation. We are aware of those technologies but no hands on experience. I recommend to concentrate on the concept rather than the marks (QB)

Action Taken: In R19 curriculum we introduced the subjects with practical.

Suggestion: There are many opportunities for data analysts. If you make BDA as core course instead of elective, that may help you in increasing job opportunities.

Action Taken: Big Data Analytics Theory and Lab components are already introduced in R16 and R19 curriculum. In R19 curriculum syllabus has enhanced as per industry requirements.

Suggestion: Offer Embedded Systems course because it is a pre requisite course for embedded computing stream which also covers IoT.

Action Taken: In R19 curriculum Embedded Systems included as Department elective with practical session.

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 16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	65.3	16.2	15	0	3.6	4.399	Excellent
Q2	72.5	26.9	0	0.6	0	4.713	Excellent
Q3	54.5	45.5	0	0	0	4.545	Excellent

Q4	62.3	26.3	10.2	1.2	0	4.497	Excellent
Q5	56.3	43.1	0.6	0	0	4.557	Excellent
Q6	59.3	23.4	16.8	0.6	0	4.417	Excellent
Q7	72.5	26.3	1.2	0	0	4.713	Excellent
Q8	58.1	24	17.4	0	0.6	4.393	Excellent
Q9	53.3	28.1	0.6	18	0	4.167	Excellent

Itemized responses given to the suggestions of Faculty

Suggestion: Incorporate open ended programmatic assignments

Action Taken: In R19 We have introduced departmental projects for open ended programmatic assignments.

Suggestion: Collections frame work not included in the OOPS through java course Syllabus. It is better to include in the syllabus as those topics are very useful during problem solving in coding competitions.

Action Taken: In R19 course content of OOPS through Java is revised and we introduced Practical Labs with additional Technical seminars.

Suggestion: In R16 Python Programming course included in Department elective but it is suggestible to include that course as core course so that all that students can learn python programming

Action Taken: In R19 we introduced Practical Labs for python with additional Technical seminars.

Suggestion: Programming subject is very important for CSE and IT students. Better to introduce C programming in two semesters and increase the credits score also in R19 regulation. And give more time for practice sessions.

Action Taken: In R19 we introduced PPS-I in B.Tech I Year I sem and PPS-II in B.Tech I Year II sem with practical sessions.

Suggestion: Include interdisciplinary projects to enhance student's knowledge.

Action Taken: In R19 we introduced interdisciplinary project to enhance their knowledge.

Suggestion: Students performance in laboratory should be assessed by industry experts.

Action Taken: In R19 we introduced Technical seminars with the industrial experience person.

Suggestion: Organize more technical trainings

Action Taken: In R19 we introduced Practical Labs for Artificial Intelligence, Competitive Coding, Mobile Ad-hoc networks, IOT.

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 16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	78.9	11.8	5.3	3.9	0	4.654	Excellent
Q2	46.1	44.7	5.3	3.9	0	4.33	Excellent
Q3	63.2	26.3	7.9	2.6	0	4.501	Excellent
Q4	40.8	48.7	7.9	2.6	0	4.277	Excellent
Q5	63.2	23.7	7.9	3.9	1.3	4.436	Excellent

Itemized responses given to the suggestions of Employers

Suggestion: Please give real time examples apart from the syllabus

Action Taken: Yes, In R19 Curriculum to cover content beyond syllabus PPS-I, PPS-II, competitive coding are introduced

Suggestion: Please include new technologies final so that they will be industry ready

Action Taken: In R19 we introduced Practical Labs for Artificial Intelligence, Competitive Coding, Mobile Ad-hoc networks, IOT.

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

Action Taken: In R19 Curriculum courses are provided to improve communication and presentation skills

Suggestion: Students are good at basics. Need to brush up communication skills to enhance their projection with their technical knowledge.

Action Taken: In R19 Curriculum Technical Seminars and intra disciplinary projects will make students familiar with practical exposure.

Suggestion: Please collaborate more sessions with industry people so that students will know what they are go to do in next phase.

Action Taken: Modular courses are introduced. Every year students are taken to industrial tour to get practical exposure.

Action taken based on the suggestions from Parents:

Q1.Curriculum enhances the intellectual aptitude of your ward

Q2.Curriculum improves the personality development and technical skilling of your ward

Q3. Satisfaction about the Academic, Emotional Progression of your ward

Q4. Competency of your ward is on par with the students from other Universities/Institutes

Q5. Course Curriculum is of the global standard and is in tune with the needs of IT and IT enabled industries

Analysis of Overall Feedback given by the Parents on R 16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	95.2	3.1	1.4	0	0.3	4.929	Excellent
Q2	87.9	10.4	1.1	0.3	0.3	4.853	Excellent
Q3	87.9	9.6	1.4	0	0.8	4.829	Excellent
Q4	92.4	5.3	1.4	0	0.8	4.882	Excellent
Q5	95.5	2	1.7	0.3	0.6	4.918	Excellent

Itemized responses given to the suggestions of Parents

Suggestion: Add employability courses in curriculum

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

Suggestion: Emerging technologies as a subject helps us more than it being an elective

Action Taken: In R19 AI is introduced as part of curriculum

Suggestion: Develop programming skills

Action Taken: In R19 we introduced many programs to develop programming skills

Suggestion: The curriculum is good but execution is lacking on the student part

Action Taken: Modular courses are introduced. And we introduced innovative Teaching learning methodologies like Activity Based Learning, Flipped Learning, it increases involvement of students.

Suggestion: Introduce the courses which are use full for their Placements Point of view

Action Taken: Modular courses are introduced and training classes are conducted for placements

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