



DEPARTMENT OF APPLIED ENGINEERING

Action Taken Report on B.Tech Automobile Engineering Program R16 Feedback

Implemented in R19 introduced in the AY 2019-20

Action taken based on the suggestions from Students:

- Q1.Course Contents of Curriculum in tune with the Program Outcomes
- Q2.Course Contents designed and value added courses offered enriches Core Competencies
- Q3.Courses offered in the curriculum serves the needs of both Automotive Industries and IT sector
- Q4.Contact Hour Distribution among the various Course Components (LTP) is Satisfiable
- Q5.Electives have enabled the passion to learn new technologies in emerging and Interdisciplinary Areas
- Q6.Curriculum providing enable towards self-learning
- 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.Suggest any other points to improve the quality of the curriculum

Analysis of Overall Feedback given by the Students on R16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	70.9	2.4	0	0	26.7	3.908	Very Good
Q2	49.1	26.7	0	0	24.2	3.765	Very Good
Q3	58.8	24.2	0	17	0	4.248	Excellent
Q4	83	0	14.5	0	2.4	4.609	Excellent
Q5	17.6	38.8	43.6	0	0	3.74	Very Good
Q6	70.9	26.7	2.4	0	0	4.685	Excellent
Q7	49.1	24.2	24.2	0	0	4.149	Excellent
Q8	2.4	29.1	66.1	2.4	0	3.315	Good
Q9	29.1	48.5	22.4	0	0	4.067	Excellent

Itemized responses given to the Suggestions of Students

Suggestion: Burden on the students need to be decreased as per the new guidelines of AICTE



Action Taken: 195 credits have been reduced to 170 credits in R19 curriculum compared to the previous one

Suggestion: Courses on current trends are to be offered.

Action Taken: courses like Electric and hybrid vehicles, Robotics, 3d printing for automobile components are offered as electives.

Suggestion: In-house training to be provided for facing competitive exams.

Action Taken: Practices already started with R16 regulations and are continued in this regulation too.

Suggestion: The curriculum must improve the placements of the department

Action Taken: Modular courses and Value added courses are offered as a one-credit course and every student must undergo at least one modular course taught by an external expert from Industry. Along with that courses from APSSDC are offered to improve the knowledge on software packages as an add-on 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 Automobile Job Oriented Skills / prerequisite to pursue higher education

Q4. Electives of Curriculum served the technical advancements needed to serve in the industry

Q5. Tools and Methodologies followed during practical sessions has enriched the required practical knowledge to serve in Industry

Q6. Ability to compete with your peers from other Universities

Q7. Current curriculum meets the present industry demands

Analysis of Overall Feedback given by the Alumni on R16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	66.7	21.7	11.7	0	0	4.554	Excellent
Q2	65	11.7	0	23.3	0	4.184	Excellent
Q3	85	15	0	0	0	4.85	Excellent
Q4	81.7	18.3	0	0	0	4.817	Excellent



Q5	63.3	1.7	23.3	11.7	0	4.166	Excellent
Q6	88.3	11.7	0	0	0	4.883	Excellent
Q7	85	3.3	11.7	0	0	4.733	Excellent

Itemized responses given to the suggestions of Alumni

Suggestion: Special focus need to be given to fast learners.

Action Taken: As continue with previous regulations Honour degree has been offered to the fast learners who have zero backlog history with 8.0 CGPA till end of second year.

Suggestion: Students need to be work on real time problems faced by current automobile industry and society.

Action Taken: Concept of Project based learning has been introduced in which projects related to interdisciplinary and societal and industry oriented are to be carry out by students in respective semesters.

Suggestion: Courses on current trends are to be offered.

Action Taken: courses like Electric and hybrid vehicles, Robotics,3d printing for automobile components are offered as electives.

Suggestion: Add employability courses in curriculum

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

Action taken based on the suggestions from Faculty:

- Q1. Curriculum designed is in tune with program Vision and Mission
- Q2. Contents of the curriculum enhances the 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 Justifiable
- Q5. Electives offered in the program makes the faculty to explore latest technologies.
- Q6. Curriculum providing opportunity towards self-learning to meet the expectations
- Q7. Composition of Basic Sciences, Engineering, Humanities and Management Courses Satisfiable
- Q8. Number of theoretical courses and laboratory sessions sufficient to improve the technical skills of students
- Q9. Suggest any other points to improve the quality of the curriculum

**Analysis of Overall Feedback given by the Faculty on R16**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	50	22.9	18.8	4.2	4.2	4.106	Excellent
Q2	50	35.4	4.2	10.4	0	4.25	Excellent
Q3	50	45.8	4.2	0	0	4.458	Excellent
Q4	50	22.9	22.9	4.2	0	4.187	Excellent
Q5	54.2	45.8	0	0	0	4.542	Excellent
Q6	56.3	31.3	6.3	6.3	0	4.382	Excellent
Q7	54.2	29.2	12.5	4.2	0	4.337	Excellent
Q8	64.6	29.2	6.3	0	0	4.587	Excellent
Q9	50	43.8	6.3	0	0	4.441	Excellent

Itemized responses given to the suggestions of Faculty

Suggestion: latest BS Standards for Vehicle emission norms to be included.

Action Taken: These topics are covered in Automotive Emissions and control which is offered as mandatory course

Suggestion: Activities related to lifelong learning are to be imparted

Action Taken: To make students self-learned Swayam and NPTEL course have been introduced as mandate

Suggestion: Benefits of 3D printing need to be provided to all the students irrespective of discipline

Action Taken: Concepts of 3D printing for Automobile have been incorporated.

Suggestion: Knowledge about motorsport vehicles is required

Action Taken: Subjects like racing two and four wheelers, fundamentals of motor sport engineering are offered as Department electives

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

- Q1. Course Contents of B.Tech Automobile Engineering Curriculum is in tune with the Program Outcomes
- Q2. Relevance of the Course Contents in tune with the Industry Demands
- Q3. Elective are in-line with the technology advancements in Modelling and Automobile Manufacturing Sectors
- Q4. Applicability of the tools and technologies described in the curriculum will be enough to practice in Industry.
- Q5. Problem Solving and Soft Skills acquired by the students through the course contents will enable them to be placed in product and process industry.

Analysis of Overall Feedback given by the Employers on R16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	83.3	12.5	4.2	0	0	4.791	Excellent
Q2	75	20.8	4.2	0	0	4.708	Excellent
Q3	70.8	12.5	16.7	0	0	4.541	Excellent
Q4	75	8.3	12.5	4.2	0	4.541	Excellent
Q5	87.5	8.3	4.2	0	0	4.833	Excellent

Itemized responses given to the suggestions of Employers

Suggestion: More emphasis on communication and technical terminologies.

Action Taken: Certifications like PET and BEC, CRT and life skills have been offered throughout the program at different stages.

Suggestion: Awareness on Vehicle maintenance should be given to the students.

Action Taken: A course on vehicle evaluation and Maintenance has been incorporated in the curriculum.

Suggestion: Courses on current trends are to be offered.

Action Taken: Robotics, Modelling of Electric and Hybrid vehicles, NVH offered as electives.

Suggestion: In-house training to be provided for facing competitive exams.



Action Taken: Practices already started with R16 regulations and are continued in this regulation too.

Suggestion: as per BS Standards, Supercharging and turbo charging areas need to be covered in the curriculum

Action Taken: These topics are covered in a course called Supercharging and turbo charging which is offered as elective course.

Action taken based on the suggestions from Parents:

1. Satisfaction of Academic and Emotional Progression of your ward
2. Satisfaction with the offered curriculum for your wards future endeavours?
3. Overall assessment of technical knowledge acquired by your ward who is pursuing his/her program in our University
4. Competency of your ward is on par with the students from other Universities/Institutes
5. Course Curriculum is of the global standard and is in tune with the needs of Automotive and IT enabled industries

Analysis of Overall Feedback given by the Parents on R16

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	44.8	32.2	0	0	0	3.528	Very Good
Q2	44.8	43.7	11.5	0	0	4.333	Excellent
Q3	35.6	52.9	11.5	0	0	4.241	Excellent
Q4	44.8	32.2	23	0	0	4.218	Excellent
Q5	39.1	11.5	49.4	0	0	3.897	Very Good

Itemized responses given to the suggestions of Parents

Suggestion: Apart from curriculum, training by Yoga and physical fitness is to be given to students.

Action Taken: New 1 credit course of Yoga and physical fitness, Sports has been introduced to the students in R19 Curriculum

Suggestion: Students need to be work on real time problems faced by current industry and society.



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Department of Applied Engineering

Action Taken: Concept of Project based learning has been introduced in which projects related to interdisciplinary and societal and industry oriented are to be carry out by students in respective semesters.

Suggestion: Students should be cautious about Ethics and values.

Action Taken: A course has been introduced as mandatory course called professional Ethics, human values and gender equity.

Suggestion: Special focus need to be given for managerial behaviour.

Action Taken: As continue with previous regulations management science has been offered to the Students as a mandatory Course.

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