ADITYA ENGINEERING COLLEGE
An Autonomous Institution
Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade
Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956
Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

## DEPARTMENT OF MECHANICAL ENGINEERING

Alumni Feedback on curriculum

Alumni Feedback Analysis **(2020 - 21)** for the **B. Tech (Mechanical Engineering)** program.

S. NO	Question related to Curriculum	Opinion of the alumni with percentage					Majority opinion	% of Majority Opinion
		Excellent (%)	Good (%)	Average (%)	Below Average (%)	Poor (%)		
1	Curriculum is contemporary and need based	30	55	8	4	3	Excellent & good	85%
2	There is adequate emphasis on employability skills/ skill development/entrepreneurship in the curriculum	32	49	10	6	3	Excellent & good	81%
3	The electives offered in the curriculum suits the industry needs and technological advancements.	32	46	12	5	5	Excellent & good	78%

**Graphical representation of Alumni feedback analysis**
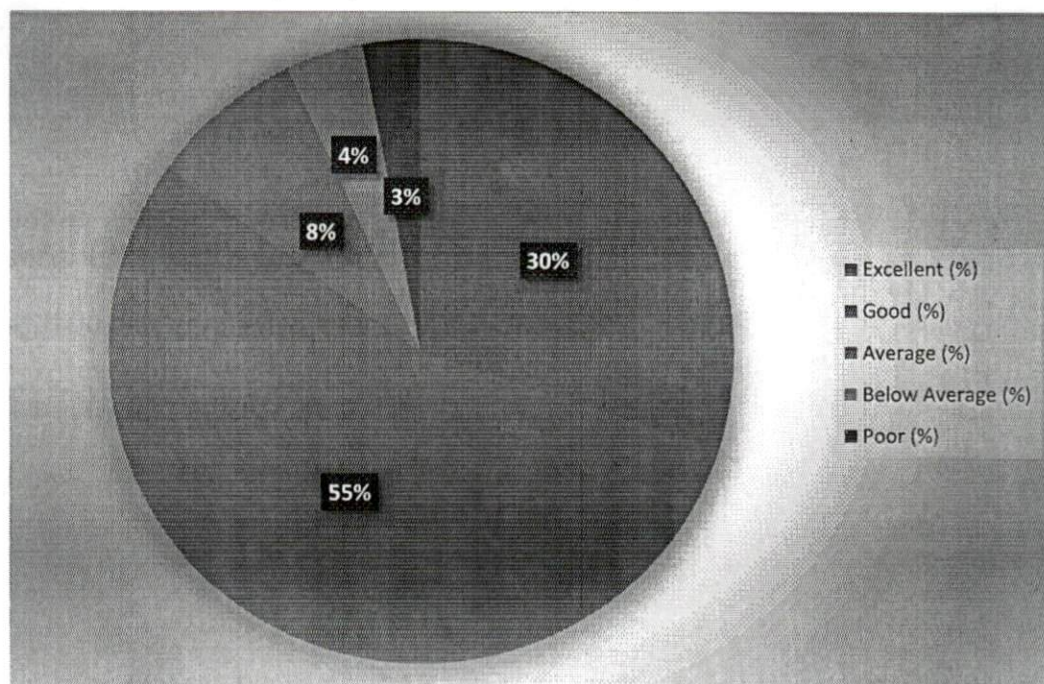
1. **Curriculum is contemporary and need based**

2. There is adequate emphasis on employability skills/ skill development /entrepreneurship in the curriculum

Excellent (%): 32%
Good (%): 49%
Average (%): 10%
Below Average (%): 6%
Poor (%): 3%

3. The electives offered in the curriculum suits the industry needs and technological advancements.

Excellent (%): 32%
Good (%): 46%
Average (%): 12%
Below Average (%): 5%
Poor (%): 5%
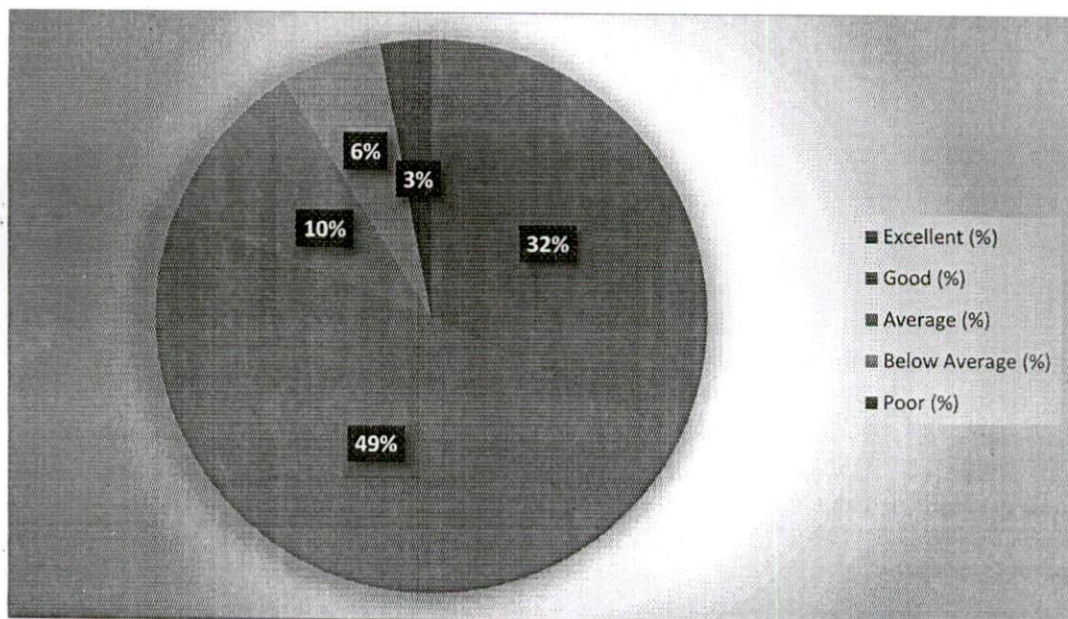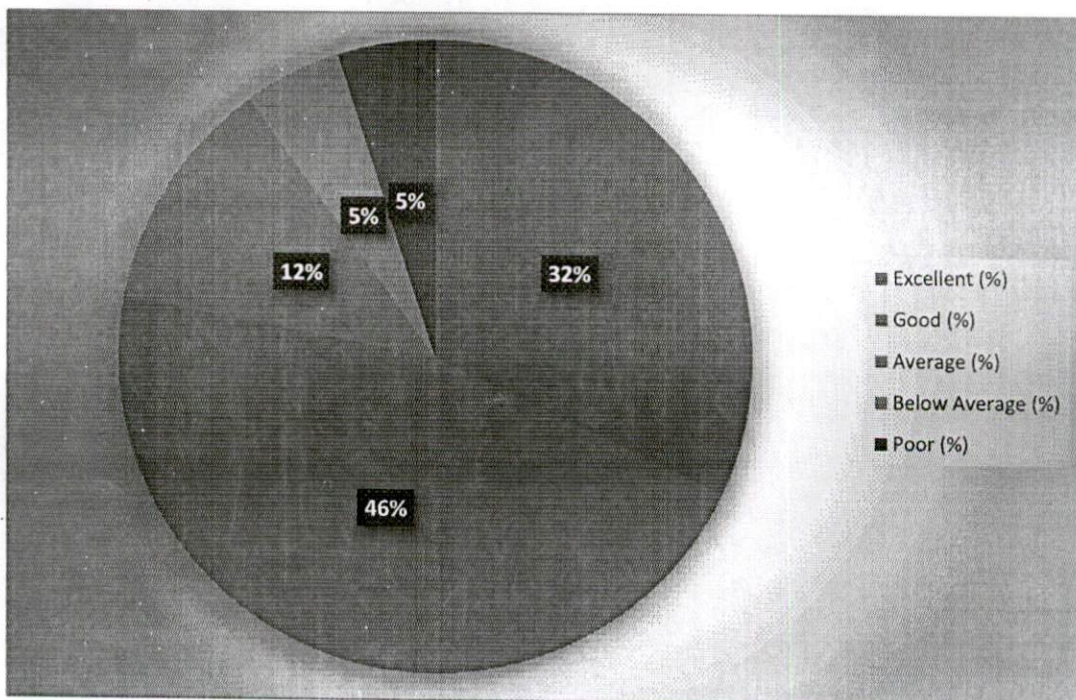
Suggest any courses to be added to /removed from the curriculum
1. Composite Materials
2. Add Java
3. Add IOT
4. CATIA

Suggest any new topics/technologies/tools/modules to be learned by students to make them industry- ready
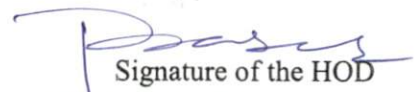1. Add python, java, data science.
2. Ansys software for mechanical students
3. "Simulation software's like Ansys, Hypermesh and simulation and modelling softwares that industry uses must be included"
4. ADD some SOFTWARE LANGUAGES AND CADS

**Give any other suggestions for improving the Curriculum**
1. Better to add 3D printing.
2. Want Telugu lectures class also not only in English some are not understand due to mother tongue.
3. Practical approach of knowledge
4. Improve the Computer LAB

The following are observations on Alumni feedback and action need to be initiated:
1. A clear understanding on the material must be known to perform research.
2. Due to the tremendous growth in the IT industry it is better to get known to programming related subjects.
3. It is better that students have knowledge on the cutting edge technologies.

Signature of the HOD

Head of the Department
Department of Mechanical Engineering
Aditya Engineering College (A)
SURAMPALEM-533 437
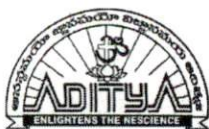
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DEPARTMENT OF MECHANICAL ENGINEERING

Employer Feedback on curriculum

Employer Feedback Analysis **(2020 - 21)** for the B. Tech **(Mechanical Engineering)** program.

| S. NO	Question related to Curriculum	Opinion of the Employer with percentage					Majority opinion	% of Majority Opinion
		Excellent (%)	Good (%)	Average (%)	Below Average (%)	Poor (%)		
1	Curriculum is contemporary and need based	30	54	8	4	4	Excellent & good	84%
2	There is adequate emphasis on employability skills/ skill development/entrepreneurship in the curriculum	30	50	8	8	4	Excellent & good	80%
3	The electives offered in the curriculum suits the industry needs and technological advancements.	25	50	12	8	5	Excellent & good	75%

Graphical representation of Employer feedback analysis
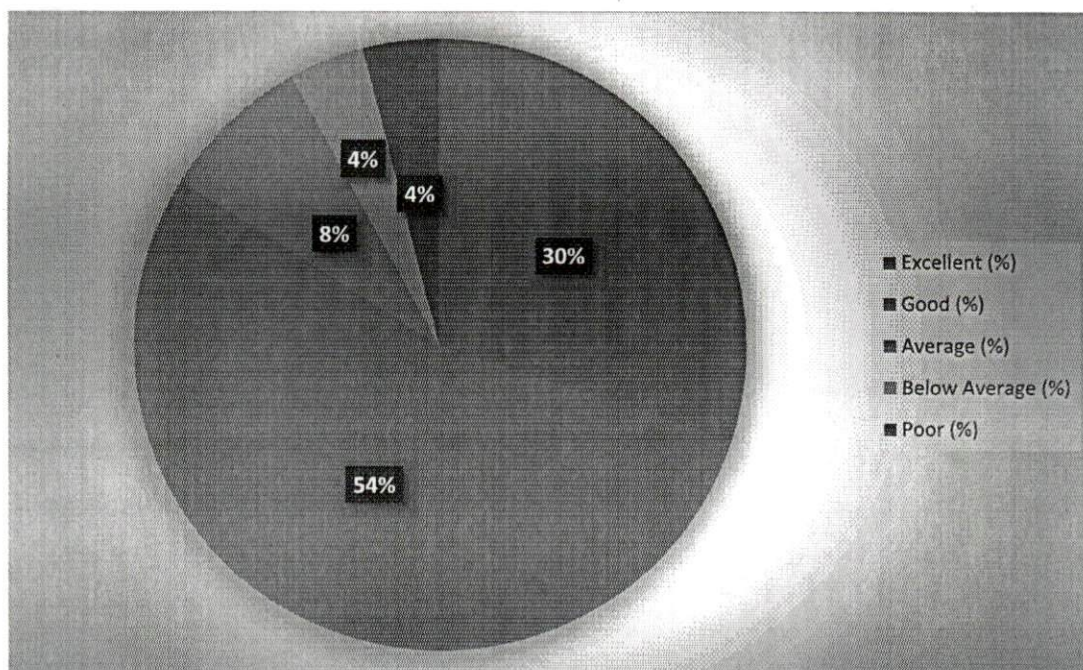
1. **Curriculum is contemporary and need based**

2. There is adequate emphasis on employability skills/ skill development /entrepreneurship in the curriculum

Pie chart:
- Excellent (%): 4%
- Good (%): 30%
- Average (%): 50%
- Below Average (%): 8%
- Poor (%): 8%

3. The electives offered in the curriculum suits the industry needs and technological advancements.

Pie chart:
- Excellent (%): 5%
- Good (%): 25%
- Average (%): 50%
- Below Average (%): 12%
- Poor (%): 8%
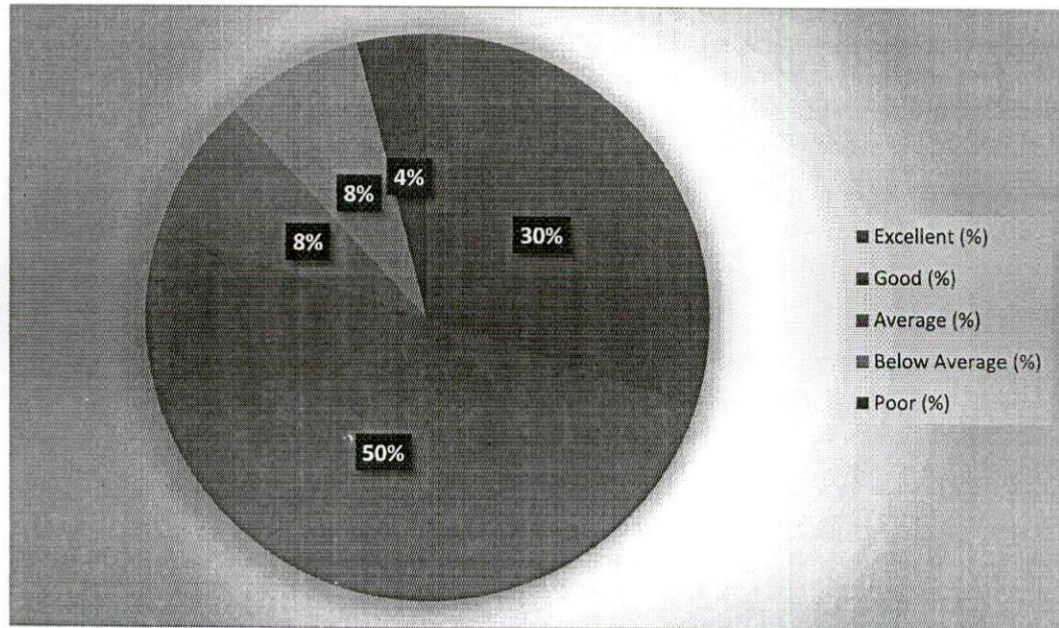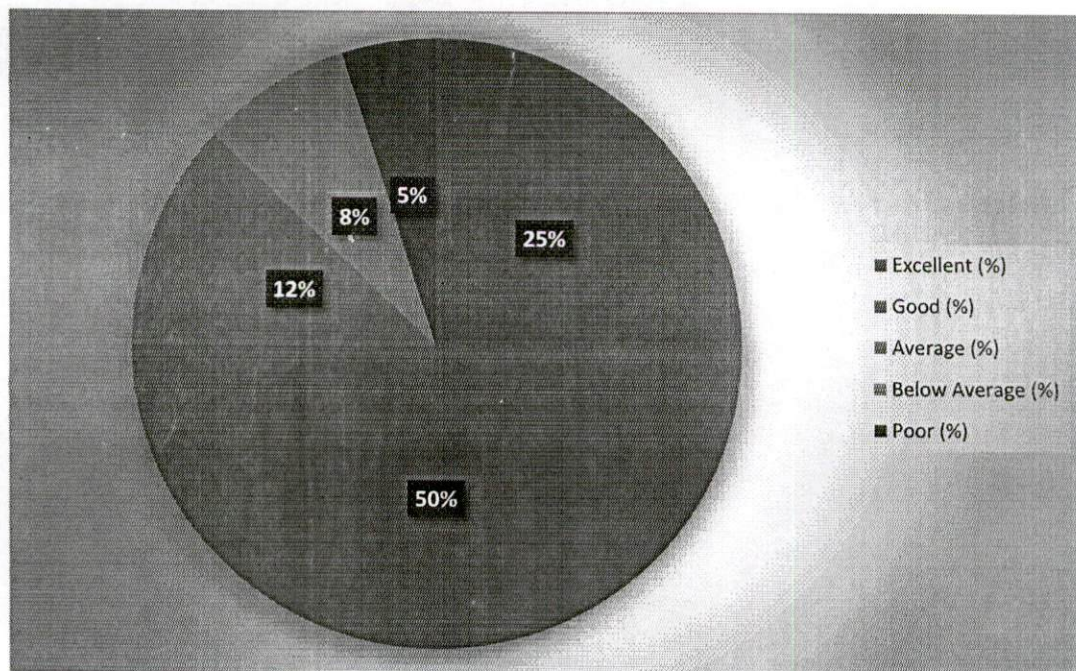
Suggest any courses to be added to /removed from the curriculum

1. Introduction to electric vehicles.

2. Python, Java Developer

3. Add personal finance management, personal development, and basic health requirement related courses

4. Add python to all non-circuit branches as an elective

Suggest the skills to be acquired by our students to meet the industry requirements

1. Fundamentals of engineering in mechanical engineering.

2. Python & CRT

3. Coding must be compulsory

4. Stress management

Any other suggestions on Curriculum

1. Hot rolled and cold rolled steels can be added to PT subject.

2. You know there are a lot, first try to change the way students think about life and every aspect in it. Bring a course in that aspect

3. You can incorporate additional industrial visits.

4. Add some more programming languages in Curriculum

The following are observations on Employer feedback and action need to be initiated:
1. In automotive, Technology is advancing day by day from conventional to hybrid, knowledge on electric usage must be known.
2. Capability to acquire and apply fundamental principles of engineering is needed.
3. Suggested to involve advanced manufacturing topics, where product based/ Automobile Engineers are looking nowadays in the curriculum.

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DEPARTMENT OF MECHANICAL ENGINEERING

Teacher Feedback on curriculum

Teacher Feedback Analysis **(2020 - 21)** for the B. Tech **(Mechanical Engineering)** program.

S. NO	Question related to Curriculum	Opinion of the Teacher with percentage					Majority opinion	% of Majority Opinion
		Excellent (%)	Good (%)	Average (%)	Below Average (%)	Poor (%)		
1	Curriculum is contemporary and need based	33	55	5	6	1	Excellent & good	88%
2	The Program Educational Objectives, Program outcomes, Program Specific Outcomes, Course Objectives and Course Outcomes are well defined and clear.	34	55	5	5	1	Excellent & good	89%
3	Curriculum has good balance of Theory and Practical courses.	33	56	5	5	1	Excellent & good	89%
4	Faculty have the freedom to adopt new techniques for teaching like seminars, presentations, group discussions, flip class room etc.	35	55	4	4	2	Excellent & good	90%
5	The hands on experience gained by the students through the laboratory courses is up to the expectations.	35	55	3	5	2	Excellent & good	90%
6	The students attain the PEOs, POs, PSOs and COs satisfactorily.	34	54	6	4	2	Excellent & good	88%
7	There is adequate emphasis on employability skills/ skill development/entrepren	32	56	5	5	2	Excellent & good	88%

	eurship in the curriculum.						
8	There is adequate emphasis on Communication Skills in the Curriculum	33	54	6	6	1	Excellent & good	87%
9	There is adequate emphasis on Human Values, ethics and Professionalism in the Curriculum.	34	53	5	5	3	Excellent & good	87%
10	The curriculum has sufficient number of electives.	32	56	5	5	2	Excellent & good	88%
11	The electives offered in the curriculum suits the industry needs and technological advancements.	34	55	6	4	1	Excellent & good	89%
12	The books prescribed/listed as reference in curriculum are relevant, appropriate and updated.	32	56	6	4	2	Excellent & good	88%
13	The rubrics for assessment is described clearly and there is adequate weightage for Continuous Internal Evaluation and Semester End Examination	33	56	5	5	1	Excellent & good	89%

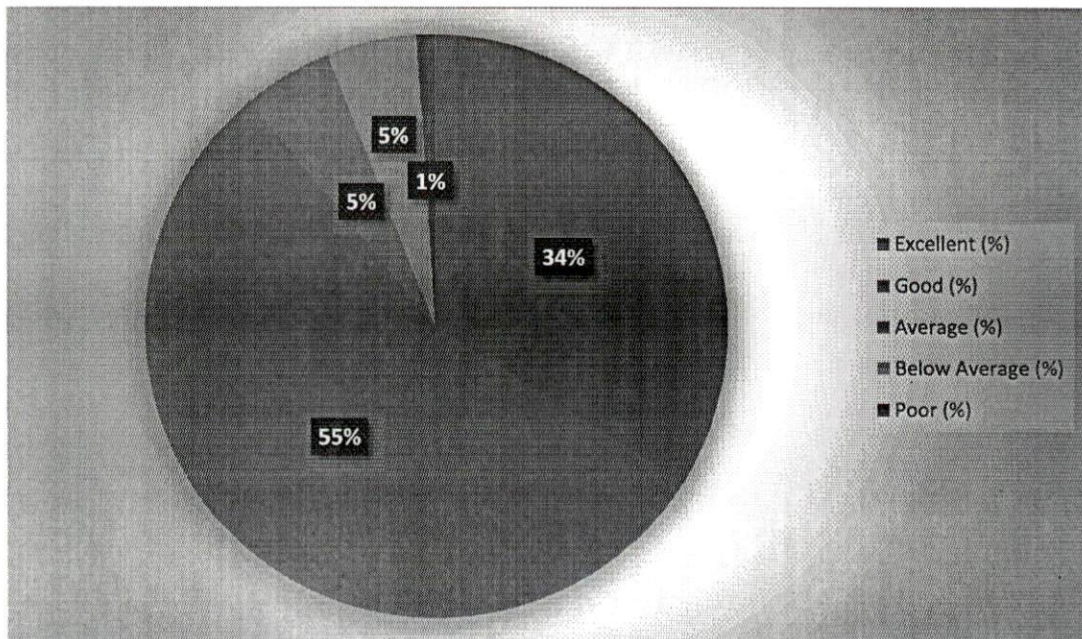**Graphical representation of Teacher feedback on curriculum**
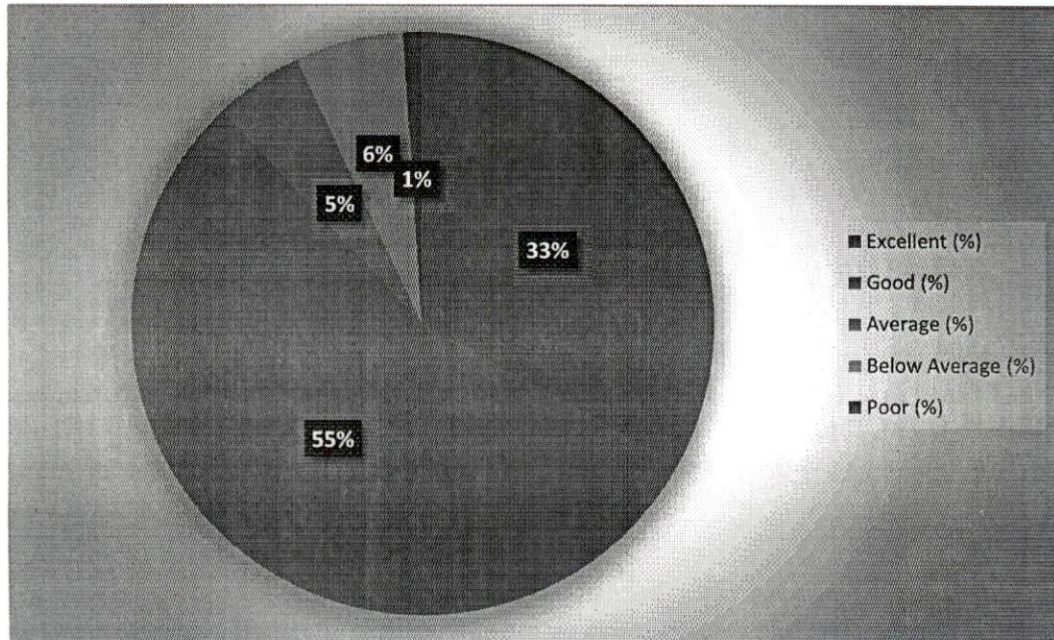
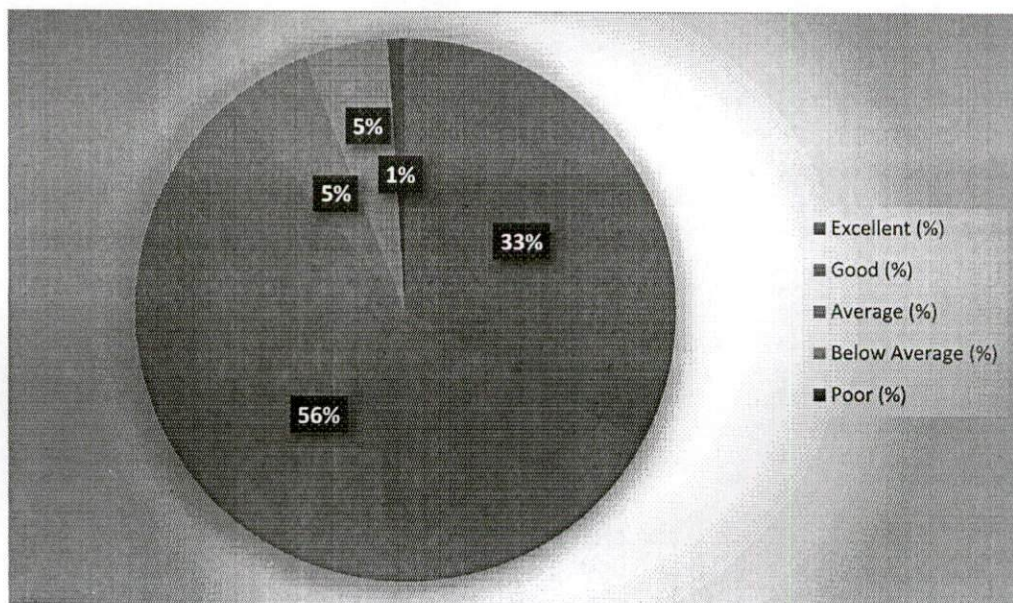1. Curriculum is contemporary and need based

2. The Program Educational Objectives, Program outcomes, Program Specific Outcomes, Course Objectives and Course Outcomes are well defined and clear.
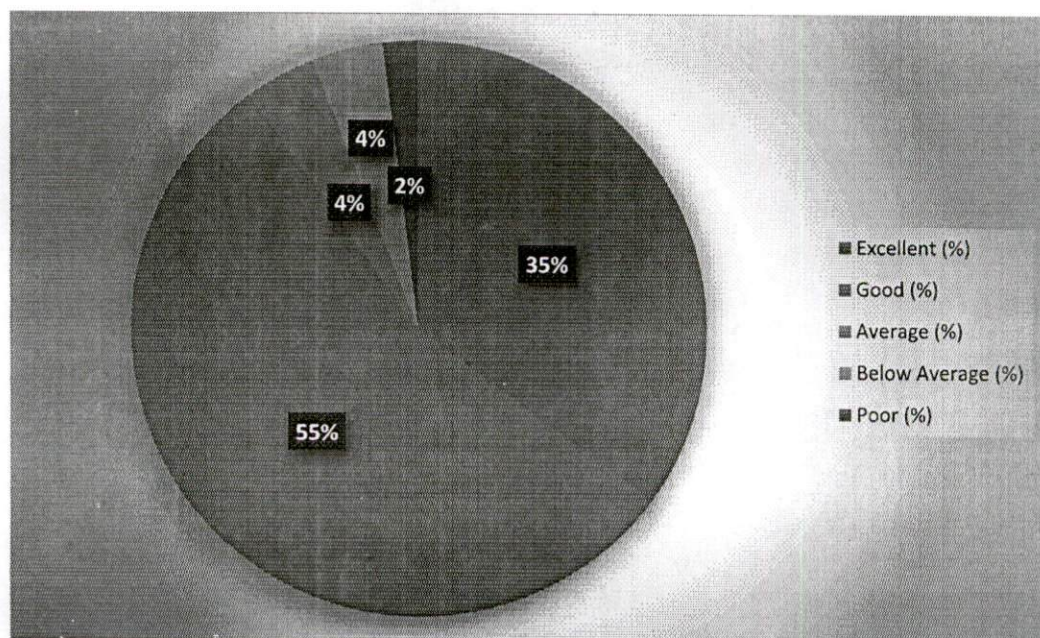
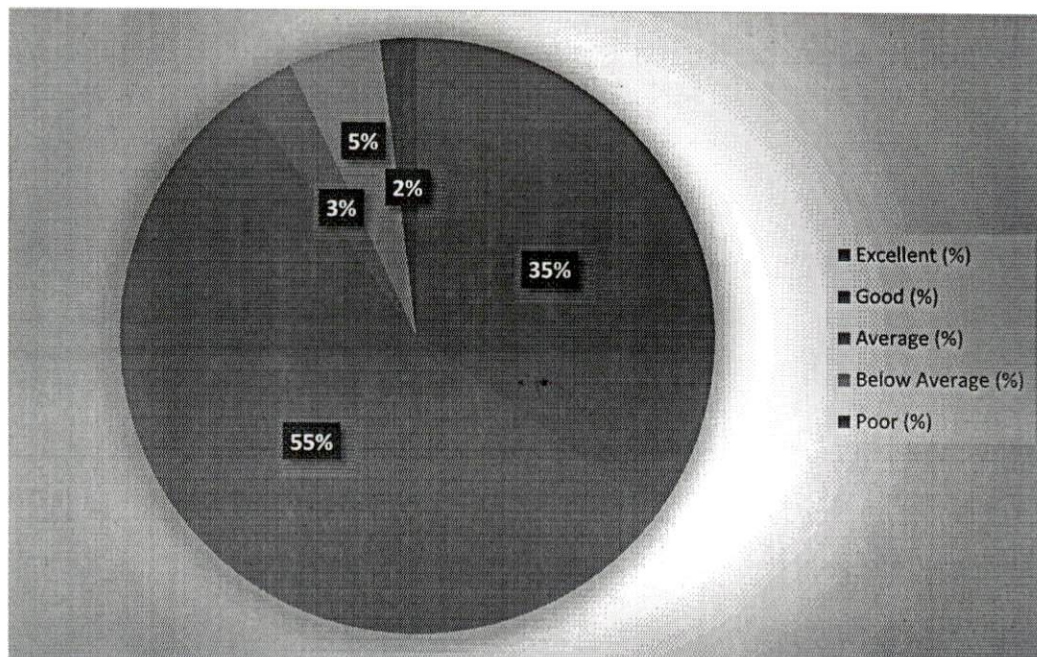3. Curriculum has good balance of Theory and Practical courses.

4. Faculty have the freedom to adopt new techniques for teaching like seminars, presentations, group discussions, flip class room etc.
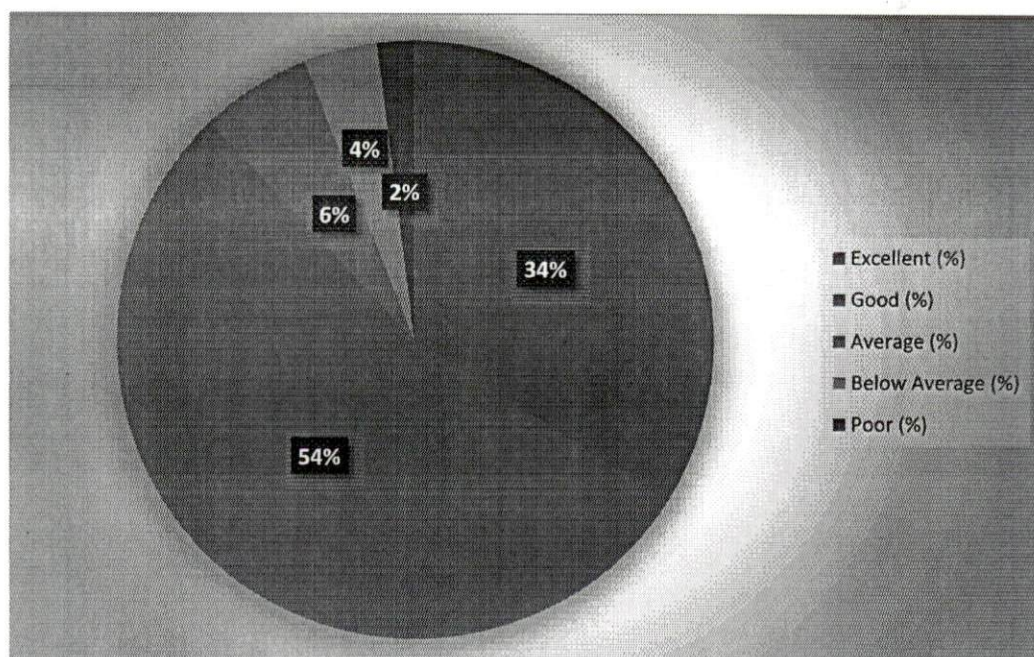
5. The hands on experience gained by the students through the laboratory courses is up to the expectations.
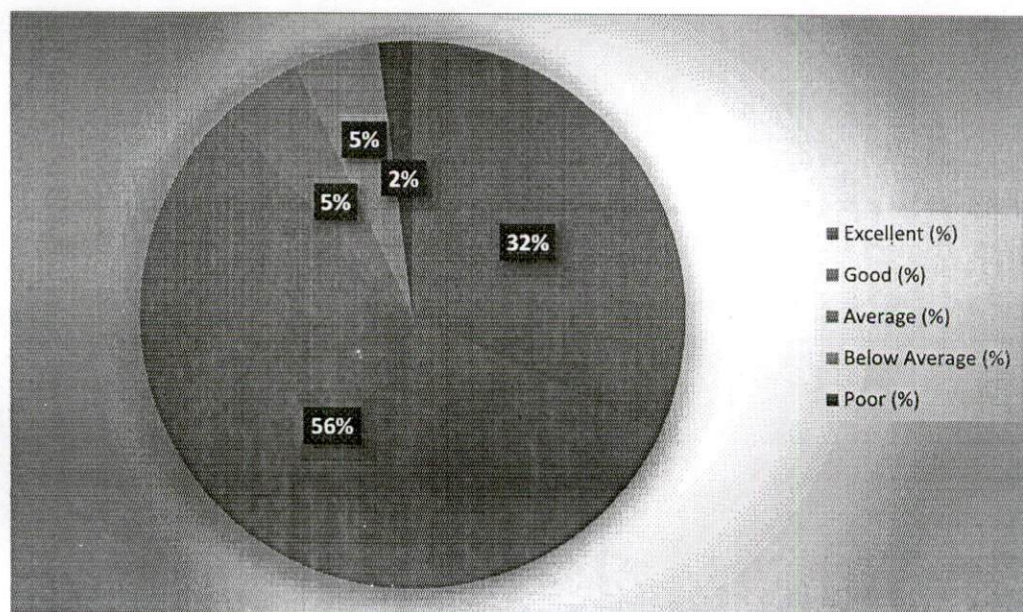

Excellent (%): 55%
Good (%): 35%
Average (%): 5%
Below Average (%): 3%
Poor (%): 2%

6. The students attain the PEOs, POs, PSOs and COs satisfactorily.

Excellent (%): 54%
Good (%): 34%
Average (%): 6%
Below Average (%): 4%
Poor (%): 2%

7. There is adequate emphasis on employability skills/ skill development/entrepreneurship in the curriculum.

Legend:
- Excellent (%)
- Good (%)
- Average (%)
- Below Average (%)
- Poor (%)

Values: 5%, 2%, 5%, 32%, 56%

8. There is adequate emphasis on Communication Skills in the Curriculum.

Legend:
- Excellent (%)
- Good (%)
- Average (%)
- Below Average (%)
- Poor (%)

Values: 6%, 1%, 6%, 33%, 54%

9. There is adequate emphasis on Human Values, ethics and Professionalism in the Curriculum.

Legend:
- Excellent (%)
- Good (%)
- Average (%)
- Below Average (%)
- Poor (%)

5%, 3%, 5%, 34%, 53%

10. The curriculum has sufficient number of electives.

Legend:
- Excellent (%)
- Good (%)
- Average (%)
- Below Average (%)
- Poor (%)

5%, 2%, 5%, 32%, 56%

11. The electives offered in the curriculum suits the industry needs and technological advancements.

Legend:
- Excellent (%)
- Good (%)
- Average (%)
- Below Average (%)
- Poor (%)

Values shown: 4%, 1%, 6%, 34%, 55%

12. The books prescribed/listed as reference in curriculum are relevant, appropriate and updated.

Legend:
- Excellent (%)
- Good (%)
- Average (%)
- Below Average (%)
- Poor (%)

Values shown: 4%, 2%, 6%, 32%, 56%

13. The rubrics for assessment is described clearly and there is adequate weightage for Continuous Internal Evaluation and Semester End Examination.


Give suggestions for improving the Curriculum
1. Biology for engineers must be added to curriculum.
2. More Programming lab courses should be added in each semester.
3. Field visits has to be introduced.
4. Per semester one Industrial visit must be there, allocate credit for industrial visit.
5. My suggestion is create awareness on how to solve practical problems and better choosing options.

The following are observations on Faculty feedback and action need to be initiated:
1. Every students to understand the basic principles of engineering and the introduction of biological concepts so that they can effectively interact to concern for providing solutions to the problems related to bio systems.
2. It is better to have Knowledge on power plant operations and its working.
3. It is better student have knowledge on the computer science related subjects during their graduation.

Signature of the HOD
Head of the Department
Department of Mechanical Engineering
Aditya Engineering College (A)
SURAMPALEM-533 437
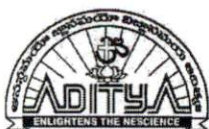
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DEPARTMENT OF MECHANICAL ENGINEERING

Student Feedback on curriculum

Student Feedback Analysis **(2020 - 21)** for the B. Tech **(Mechanical Engineering)** program.

| S. NO	Question related to Curriculum	Opinion of the Student with percentage					Majority opinion	% of Majority Opinion
		Excellent (%)	Good (%)	Average (%)	Below Average (%)	Poor (%)		
1	Curriculum is contemporary and need based	32	52	12	4	4	Excellent & good	84%
2	Curriculum has good balance of Theory and Practical courses	32	50	10	6	2	Excellent & good	82%
3	The curriculum has sufficient number of electives	30	50	10	5	5	Excellent & good	80%
4	There is adequate emphasis on employability skills / skill development/entrepreneurship in the curriculum.	32	52	12	4	4	Excellent & good	84%
5	There is adequate emphasis on Communication Skills in the Curriculum.	31	50	10	5	4	Excellent & good	81%
6	There is adequate emphasis on Human Values, ethics and Professionalism in the Curriculum.	30	52	8	6	4	Excellent & good	82%
7	The electives offered in the curriculum suits the industry needs and technological advancements.	33	52	8	4	3	Excellent & good	85%
8	The books prescribed/listed as reference in curriculum are relevant, appropriate and updated.	30	50	10	5	5	Excellent & good	80%
9	The Program Educational Objectives, Program outcomes, Program Specific Outcomes, Course Objectives and Course Outcomes are well defined and clear.	32	52	12	4	4	Excellent & good	84%
10	The rubrics for assessment is described clearly and there is adequate weightage for Continuous Internal	31	54	8	4	3	Excellent & good	85%

	Evaluation and Semester End Examination.							

Graphical representation of Students feedback on curriculum
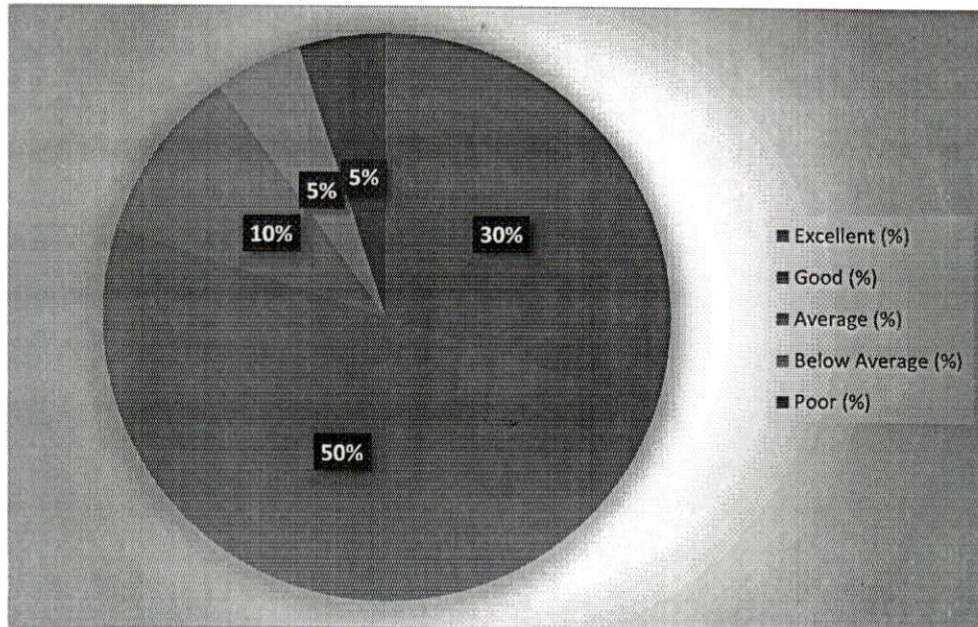
1. Curriculum is contemporary and need based
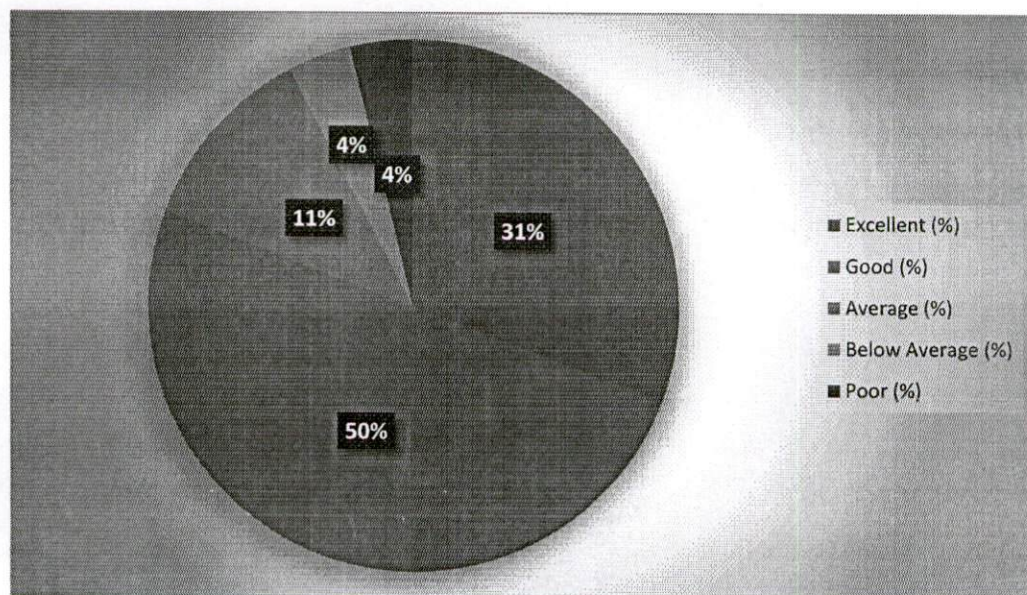
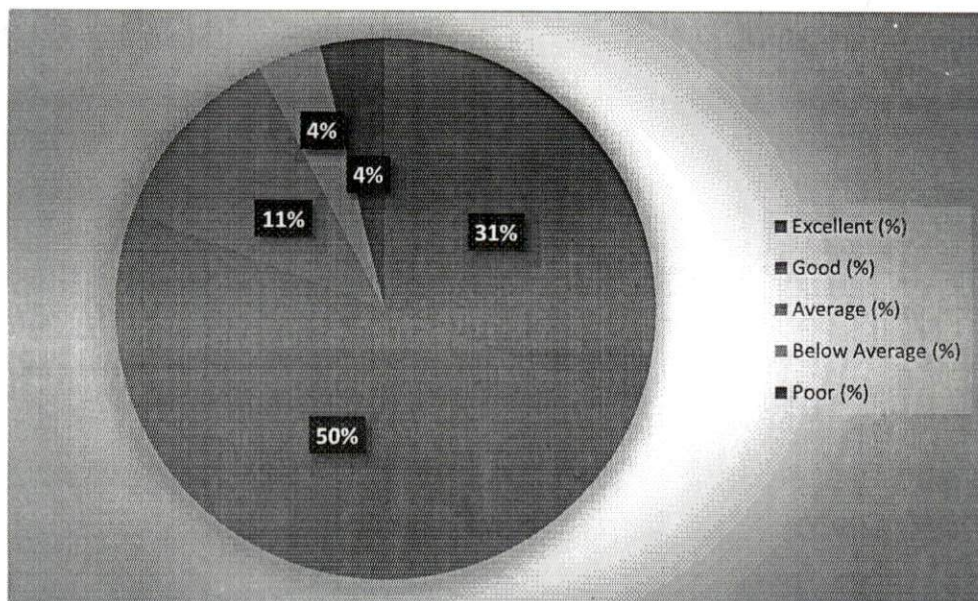2. Curriculum has good balance of Theory and Practical courses.
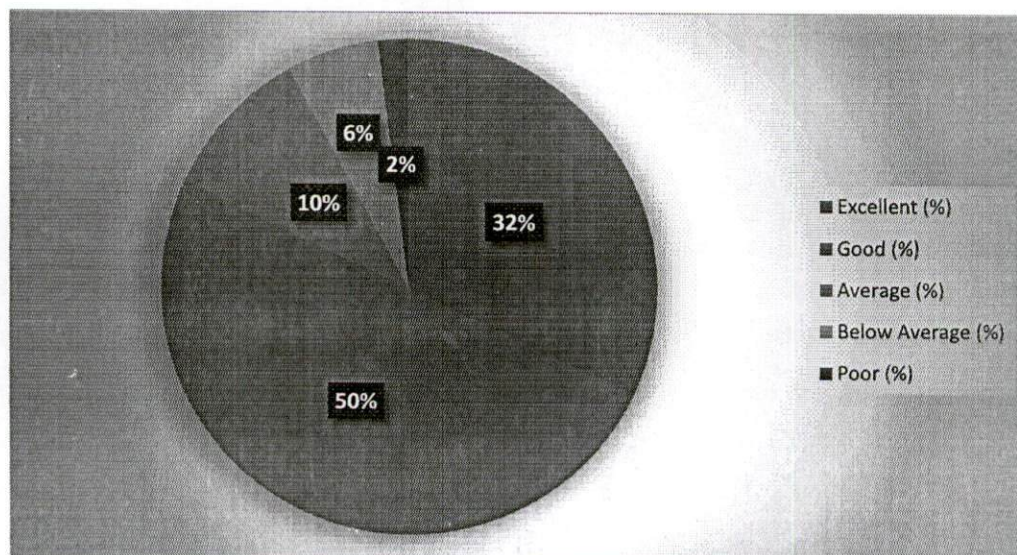
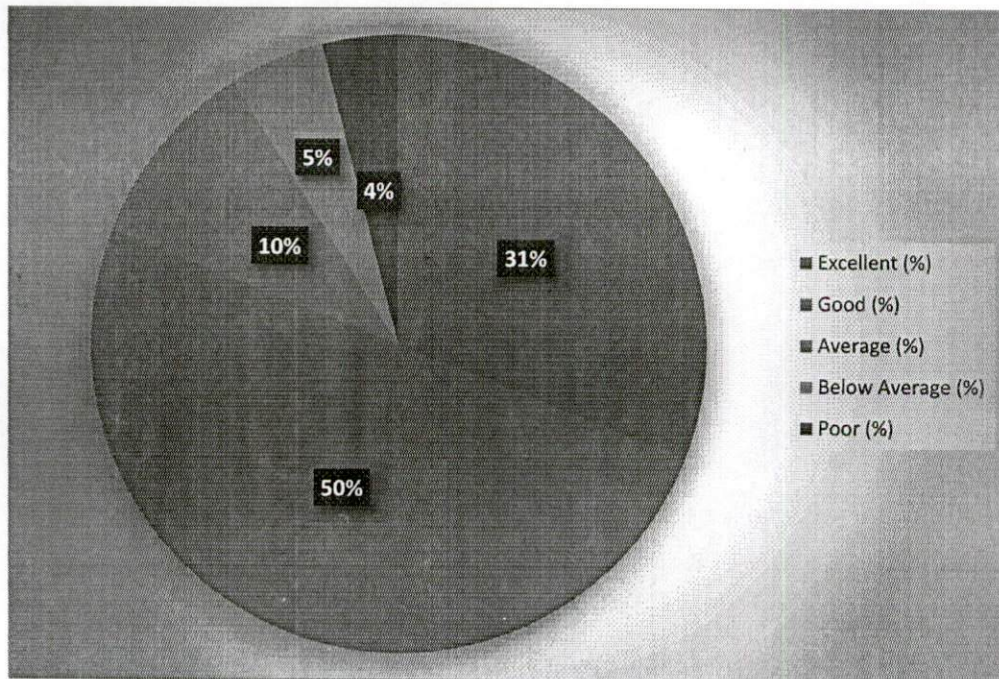3. The curriculum has sufficient number of electives

4. There is adequate emphasis on employability skills/ skill development/entrepreneurship in the curriculum.
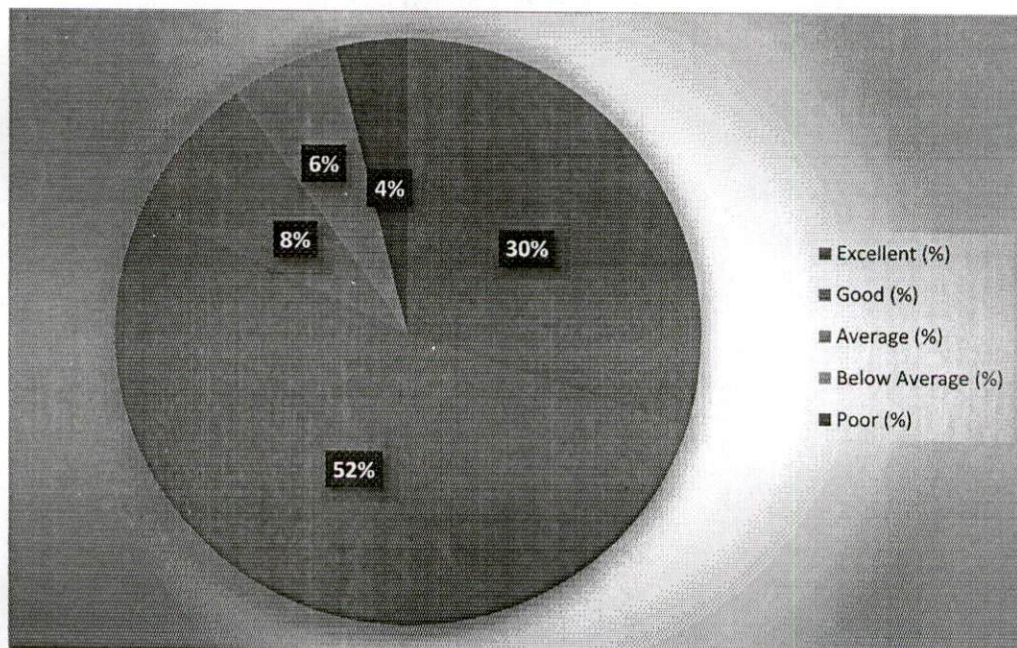
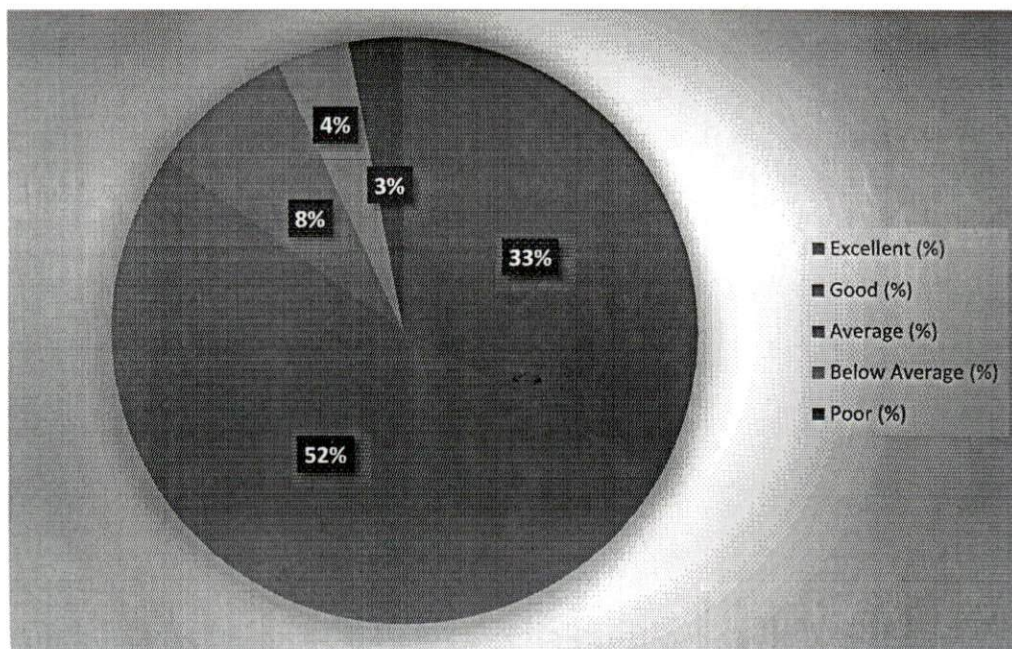5. There is adequate emphasis on Communication Skills in the Curriculum.

Legend
■ Excellent (%)
■ Good (%)
■ Average (%)
■ Below Average (%)
■ Poor (%)

Values shown: 5%, 4%, 10%, 31%, 50%

6. There is adequate emphasis on Human Values, ethics and Professionalism in the Curriculum.

Legend
■ Excellent (%)
■ Good (%)
■ Average (%)
■ Below Average (%)
■ Poor (%)

Values shown: 6%, 4%, 8%, 30%, 52%

7. The electives offered in the curriculum suits the industry needs and technological advancements.

Legend:
- Excellent (%)
- Good (%)
- Average (%)
- Below Average (%)
- Poor (%)

Values shown: 4%, 3%, 8%, 33%, 52%

8. The books prescribed/listed as reference in curriculum are relevant, appropriate and updated.

Legend:
- Excellent (%)
- Good (%)
- Average (%)
- Below Average (%)
- Poor (%)
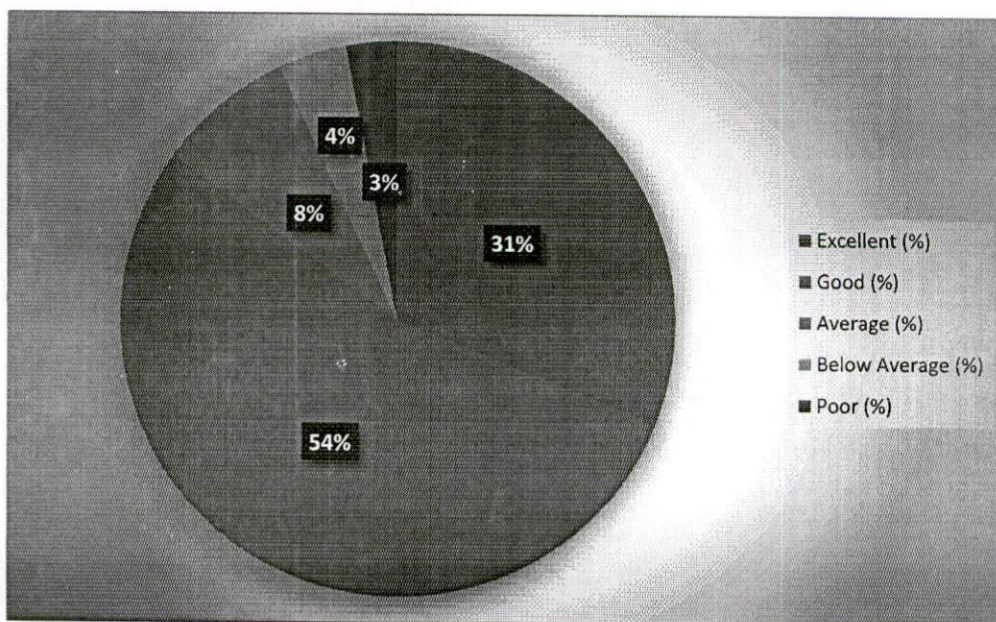
Values shown: 5%, 5%, 10%, 30%, 50%
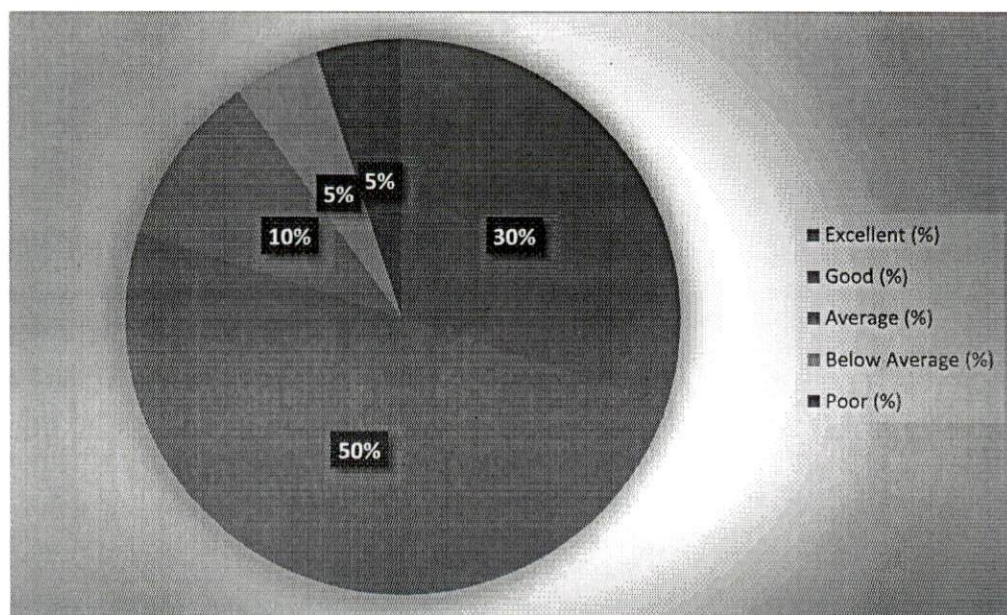
9. The Program Educational Objectives, Program outcomes, Program Specific Outcomes, Course Objectives and Course Outcomes are well defined and clear.

10. The rubrics for assessment is described clearly and there is adequate weightage for Continuous Internal Evaluation and Semester End Examination.

Give your suggestions for improving the curriculum

1. Provide more number of opportunities for students with more time for problem solving related projects.
2. Add IT Subjects and Industry interaction programs in curriculum

3. Add some interactive & motivational class.it will help learn something every day.

4. Better to update the curriculum according to the latest technology and improvements are needed.

The following are observations on Student feedback and action need to be initiated:

1. Better to add technical oriented courses so that student may be industry ready and can perform the project well.

2. Advancements in industries and job opportunities in the core must be known.

3. Increase industrial training practically.

Signature of the HOD

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