JIS College of Engineering

Academic Year: 2016-2017

As a premier institute for engineering education, JIS College of Engineering is known to the world for education as well research in different areas. The feedback from different stakeholders - students, teachers, parents and alumni provide important input for curriculum development and enrichment. Students at the end of every semester provide feedback on syllabus of every course. Feedback regarding the curriculum and syllabus is obtained from students, parents, teachers and alumni. Feedback for 2016-17 is reported as under:

Students Feedback:

The students are the most important stakeholders of Higher Education systems. The interest and participation of students at all levels in both internal quality assurance and external quality assurance have to play a central role. From the current academic year the college has started online feedback system. We have received total 261 student's online feedback on the curriculum, designed by all the departments of JIS College of Engineering, Kalyani, Nadia, WB.

We have considered 9 parameters namely-"Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?", "Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)", "Does the Curriculum satisfy the current industry requirement?", "Depth of the course content", "Is the Curriculum compatible with the latest technology?", "Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?", "Academic Curriculum", "Applicability/relevance to real life situations" and"Relevance/learning value of project/ report".We rate the parameters as follows: Extremely Good (9), Very Good (8), Good (7), Moderately Good (6) and Moderate (5), Somehow Tolerable (4), Poor (3), Very Poor (2), Extremely Poor (1). Final rating is marked as "Excellent" if Average Scores is greater than 8. Final rating is marked as "Very good" if average scores is less than or equal to 8 but greater than 6. Final rating is marked as "good" if average scores is less than or equal to 6 but greater than 4 and so on. The results derived in terms of percentage of students with common views, average scores and rating have been presented in Table-1 .

Table 1: Analysis of feedback from Students 2016-17

Q.No.	Curriculum Evaluation Points	Responses (in terms of percentage of students)										Rating
		Extremely Good	Very Good	Good	Moderately Good	Moderate	Somehow Tolerable	Poor	Very Poor	Extremely Poor	Average	
1	Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?	45.21	44.06	8.05	2.68	0	0	0	0	0	8.32	Excellent
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)	49.81	40.23	5.36	4.6	0	0	0	0	0	8.35	Excellent
3	Does the Curriculum satisfy the current industry requirement?	53.26	44.06	1.53	1.15	0	0	0	0	0	8.49	Excellent
4	Depth of the course content	51.34	42.53	3.07	3.07	0	0	0	0	0	8.42	Excellent
5	Is the Curriculum compatible with the latest technology?	51.72	43.68	1.15	3.45	0	0	0	0	0	8.44	Excellent
6	Does the curriculum enable a	49.81	44.06	3.07	3.07	0	0	0	0	0	8.41	Excellent

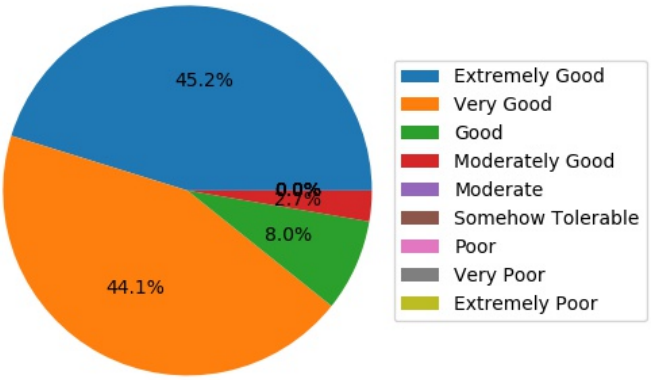
	graduate to identify, formulate and solve problems using engineering knowledge?											
7	Academic Curriculum	52.87	40.23	0.38	6.51	0	0	0	0	0	8.39	Excellent
8	Applicability/relevance to real life situations	47.51	49.43	2.3	0.77	0	0	0	0	0	8.44	Excellent
9	Relevance/learning value of project/ report	44.44	46.36	3.07	6.13	0	0	0	0	0	8.29	Excellent

Note: **Average Scores > 8:** excellent; **8≥Average Score>6:** Very Good; **6≥Average Score>4:**Good

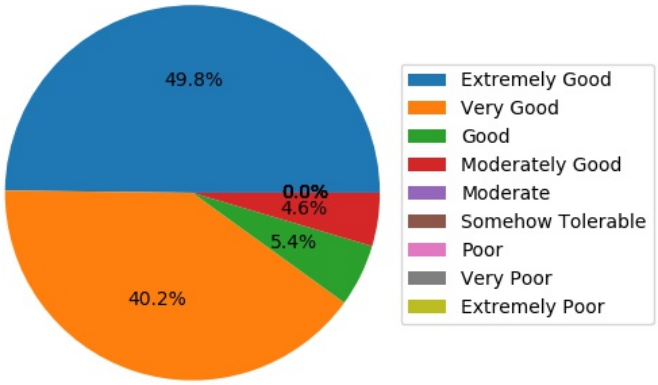
Feedback received from the students revealed that out of 9 chosen parameters, all have been rated as "Excellent". The students' feedback has been judiciously incorporated in the teaching-learning across all the

disciplines.The highest score of 8.49 was given to the parameter "Does the Curriculum satisfy the current industry requirement?" followed by 'Is the Curriculum compatible with the latest technology?' with average score of 8.44.The next highly rated parameters are "Applicability/relevance to real life situations" and"Depth of the course content",with average scores of 8.44 and 8.42 respectivelyhave been rated as "Excellent". The parameter "Relevance/learning value of project/ report"has lowest score. We should give more attention on project and project report.

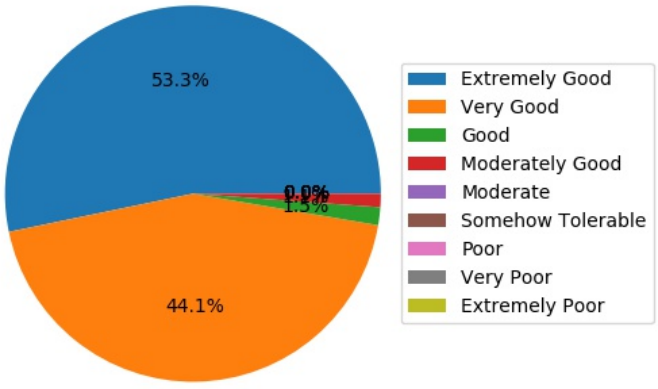
Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?



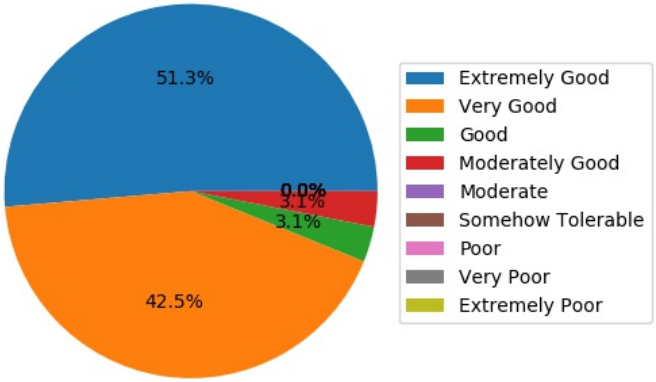
Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)



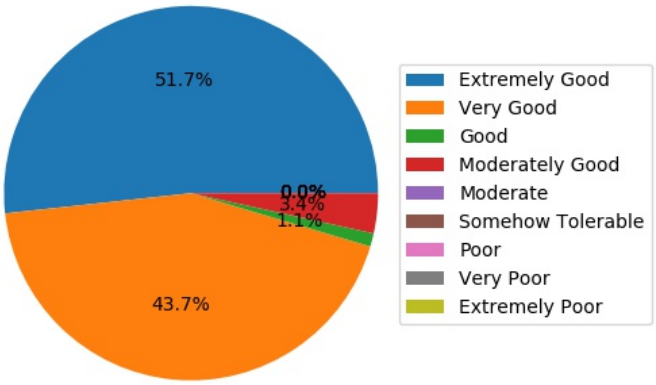
Does the Curriculum satisfy the current industry requirement?



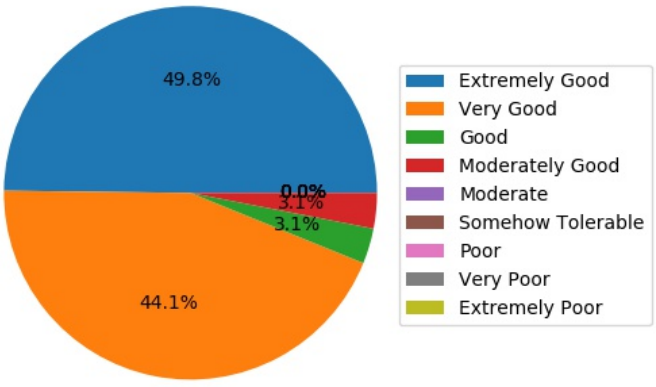
Depth of the course content



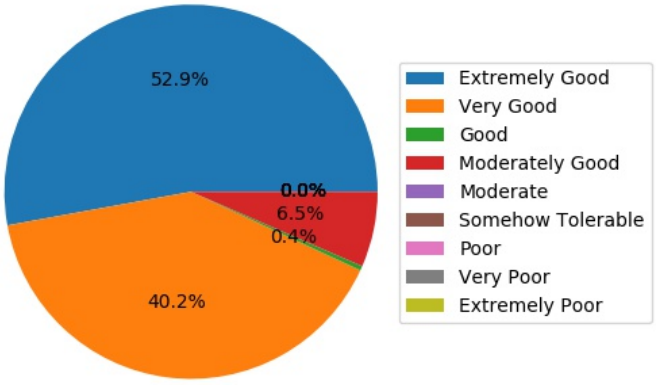
Is the Curriculum compatible with the latest technology?



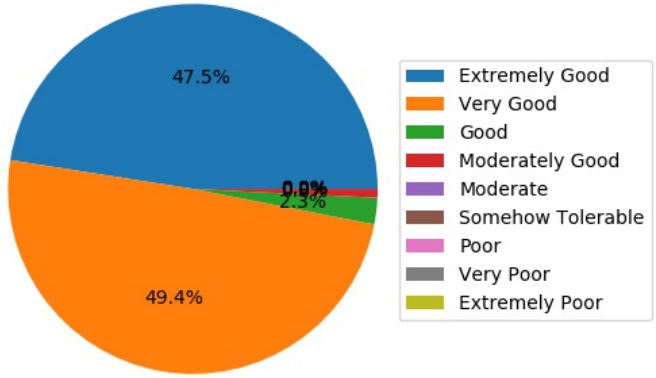
Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?



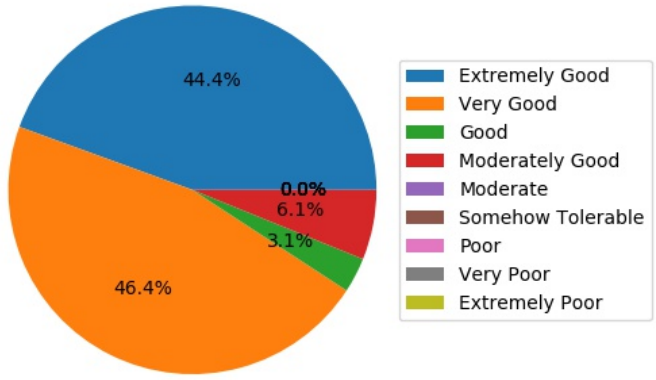
Academic Curriculum



Applicability/relevance to real life situations



Relevance/learning value of project/ report



Parent Feedback:

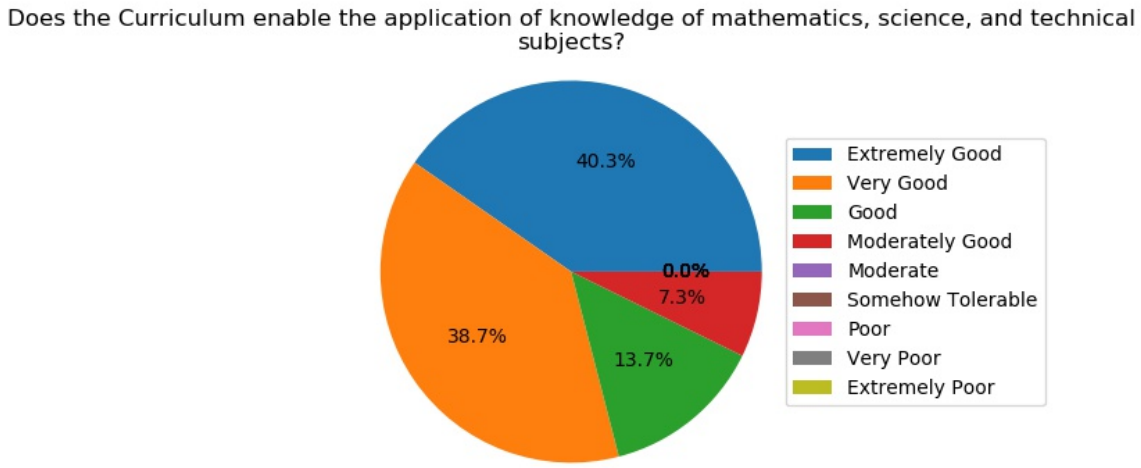
The parents' feedback was obtained on 8parameters namely- "Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?", "Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)", "Does the Curriculum satisfy the current industry requirement?", "Is the Curriculum compatible with the latest technology?", "Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?", "Applicability/relevance to real life situations", "Relevance/learning value of project/ report" and "Overall rating".We rate the parameters as follows: Extremely Good (9), Very Good (8), Good (7), Moderately Good (6) and Moderate (5), Somehow Tolerable (4), Poor (3), Very Poor (2), Extremely Poor (1). Final rating is marked as "Excellent" if Average Scores is greater than 8. Final rating is marked as "Very good" if average scores is less than or equal to 8 but greater than 6. Final rating is marked as "good" if average scores is less than or equal to 6 but greater than 4 and so on.We have received total 124 parent's feedback.The analysis of feedback is reported in Table 2.

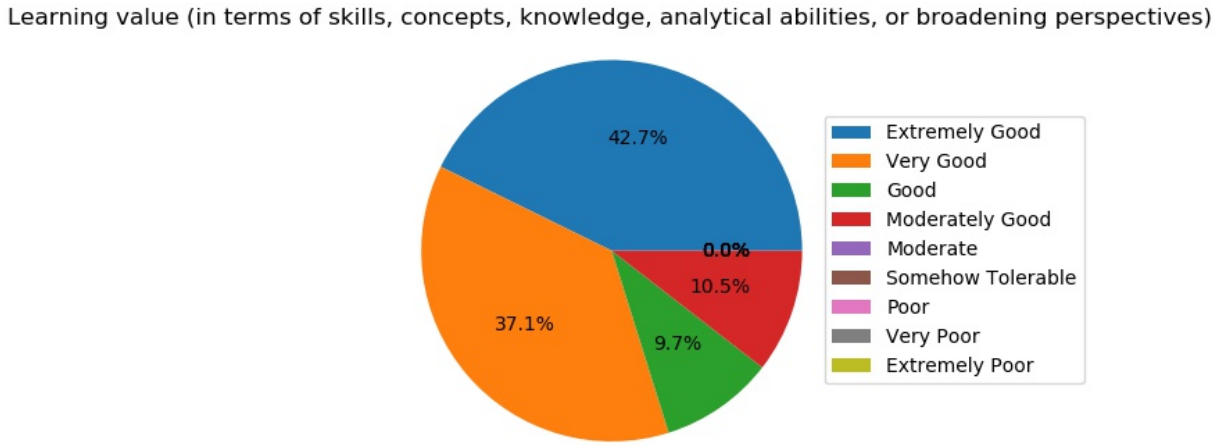
Table 2 : Analysis of feedback from Parents 2016-17

Q.No.	Curriculum Evaluation Points	Responses (in terms of percentage of parents)									Rating
		Extremely Good	Very Good	Good	Moderately Good	Moderate	Somehow Tolerable	Poor	Very Poor	Extremely Poor	Average Score	
1	Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?	40.32	38.71	13.71	7.26	0	0	0	0	0	8.12	Excellent
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)	42.74	37.1	9.68	10.48	0	0	0	0	0	8.12	Excellent
3	Does the Curriculum satisfy the current industry requirement?	50	41.13	5.65	3.23	0	0	0	0	0	8.38	Excellent
4	Is the Curriculum compatible with the latest technology?	50.81	46.77	1.61	0.81	0	0	0	0	0	8.48	Excellent
5	Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?	44.35	39.52	12.1	4.03	0	0	0	0	0	8.24	Excellent
6	Applicability/relevance to real life situations	41.94	41.13	9.68	7.26	0	0	0	0	0	8.18	Excellent
7	Relevance/learning value of project/ report	43.55	42.74	9.68	4.03	0	0	0	0	0	8.26	Excellent
8	Overall rating	44.35	55.65	0	0	0	0	0	0	0	8.44	Excellent

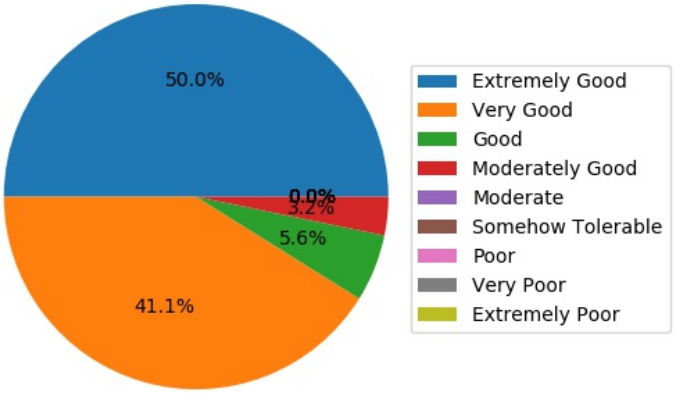
Note: **Average Scores > 8:** excellent; **8≥Average Score>6:** Very Good; **6≥Average Score>4:**Good

Table-2 shows that the highestaverage score (8.48) was provided to theparameter “Is the Curriculum compatible with the latest technology?” which indicates that the parents are satisfied with the curriculum. The parameter “Overall rating” has next largest average score (8.44). All parameters show average score as “Excellent”. As per feedbacks received from parents, the parameters “Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)” and “Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?” have lower score in comparison to other parameters. We should give attention on these parameters.

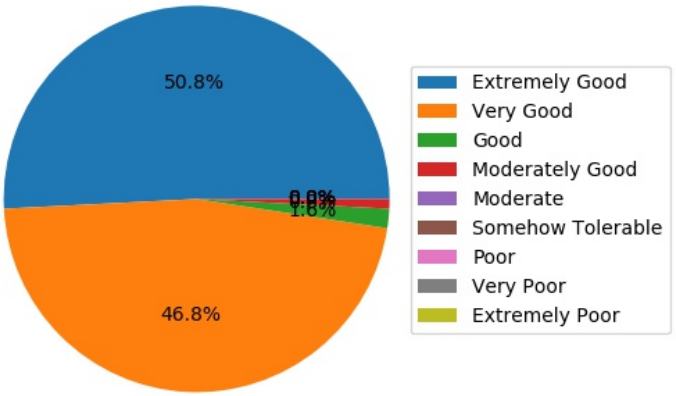




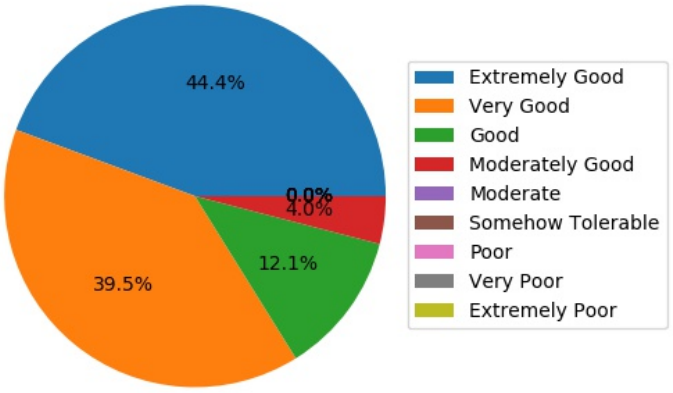
Does the Curriculum satisfy the current industry requirement?



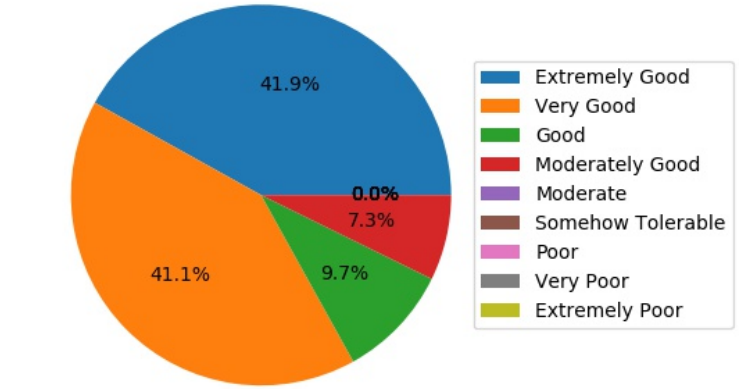
Is the Curriculum compatible with the latest technology?



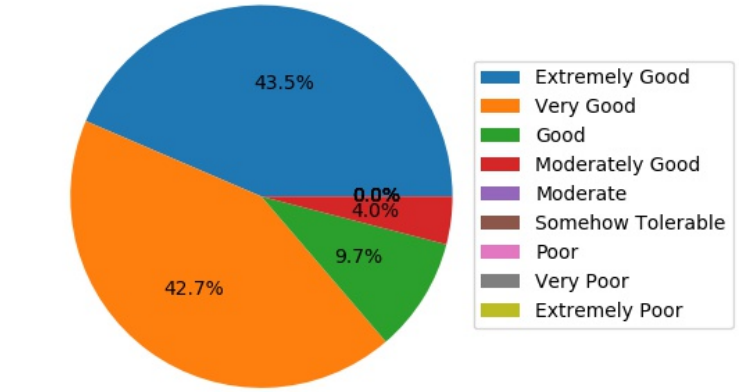
Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?



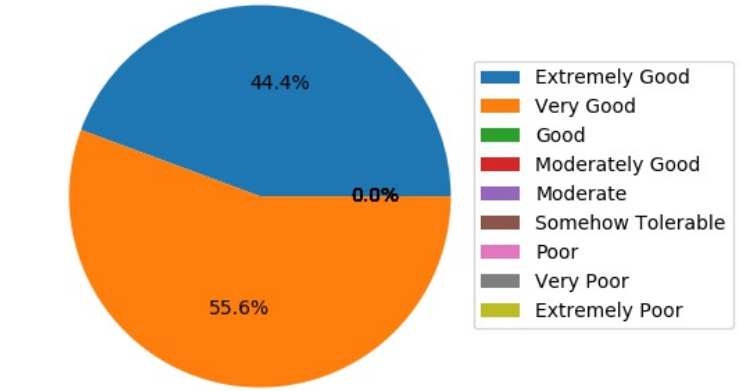
Applicability/relevance to real life situations



Relevance/learning value of project/ report



Overall rating



Teacher Feedback:

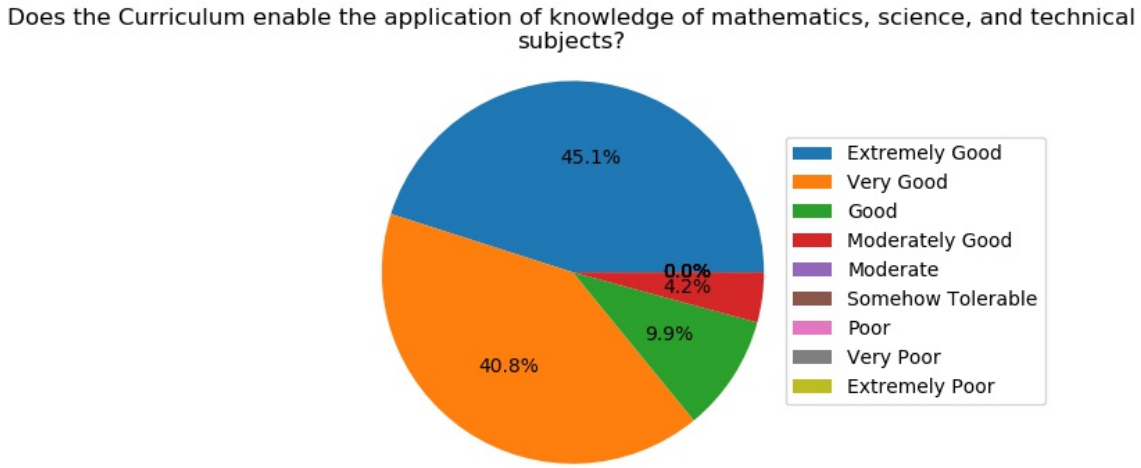
Feedback from teachers was collected for their views towards the curriculum, teaching learning and evaluation as shown in Table-3.Feedback was collected on 8 parameters- “Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?”, “Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)”, “Does the Curriculum satisfy the current industry requirement?”, “Is the Curriculum compatible with the latest technology?”, “Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?”, “Applicability/relevance to real life situations”, “Relevance/learning value of project/ report” and “Overall rating”. The teachers provided us the inputs regarding improvement in facilities and employability of our students. We appeal our teachers to provide their sincere feedback on curriculum. We have received total 71online feedbacks from teachers. Based on the comments of the teachers, the analysis has been done as follows:

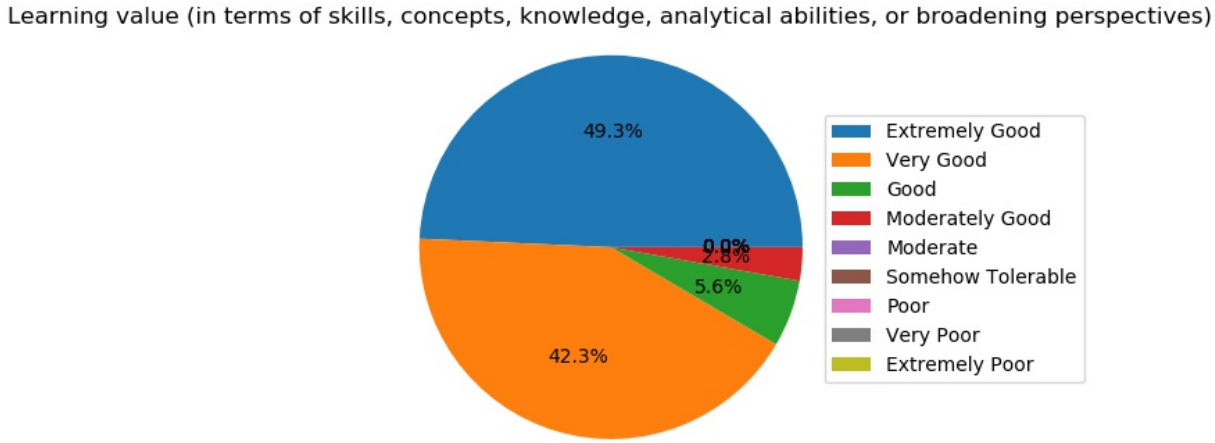
Table 3:Analysis of feedback from Teachers2016-17

Q.No.	Curriculum Evaluation Points	Responses (in terms of percentage of teachers)									Rating
		Extremely Good	Very Good	Good	Moderately Good	Moderate	Somehow Tolerable	Poor	Very Poor	Extremely Poor	Average
1	Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?	45.07	40.85	9.86	4.23	0	0	0	0	0	8.27	Excellent
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)	49.3	42.25	5.63	2.82	0	0	0	0	0	8.38	Excellent
3	Does the Curriculum satisfy the current industry requirement?	42.25	50.7	7.04	0	0	0	0	0	0	8.35	Excellent
4	Is the Curriculum compatible with the latest technology?	47.89	50.7	1.41	0	0	0	0	0	0	8.46	Excellent
5	Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?	40.85	50.7	8.45	0	0	0	0	0	0	8.32	Excellent
6	Applicability/relevance to real life situations	39.44	49.3	7.04	4.23	0	0	0	0	0	8.24	Excellent
7	Relevance/learning value of project/ report	46.48	43.66	8.45	1.41	0	0	0	0	0	8.35	Excellent
8	Overall rating	32.39	67.61	0	0	0	0	0	0	0	8.32	Excellent

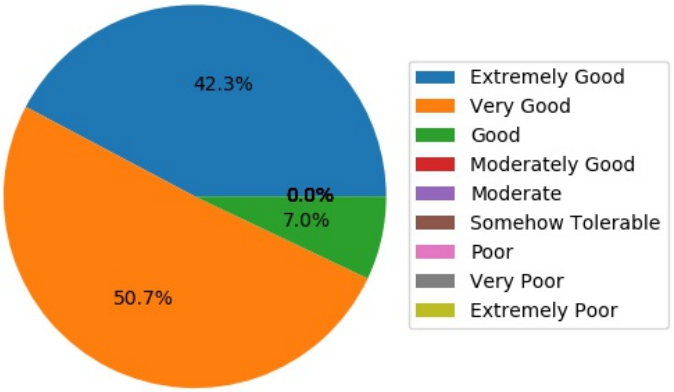
Note: **Average Scores > 8:** excellent; **8≥Average Score>6:** Very Good; **6≥Average Score>4:**Good

It is evident from the table that the teachers have given highest score of 8.46 to parameter "Is the Curriculum compatible with the latest technology?". The parameter “Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)” shows score of 8.38 which is regarded as “Excellent”. All the other parameters also show “Excellent” rating. Overall the feedback from teachers on curriculum is excellent. As per the feedbacks received from teachers it has been seen that the parameter “Applicability/relevance to real life situations” gets lowest score. We should modify the existing curriculum to increase the applicability to real life situations.

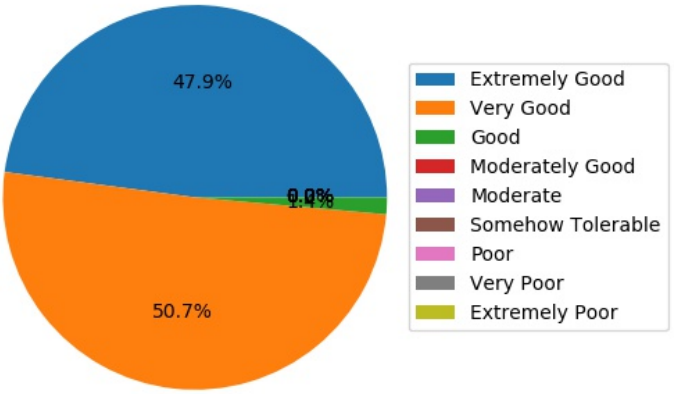




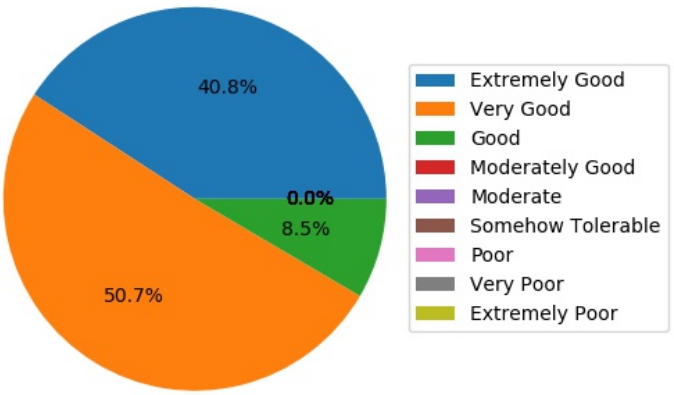
Does the Curriculum satisfy the current industry requirement?



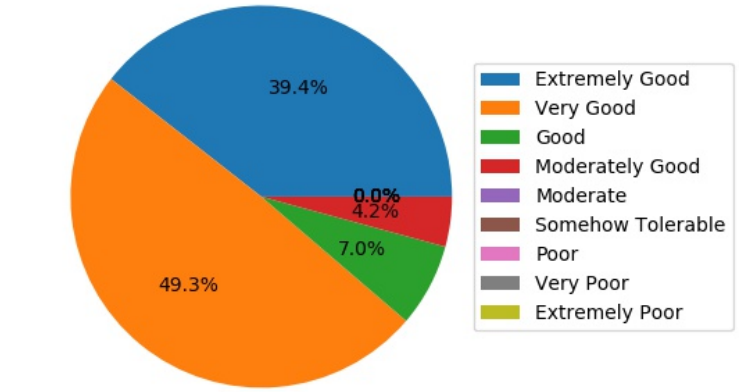
Is the Curriculum compatible with the latest technology?



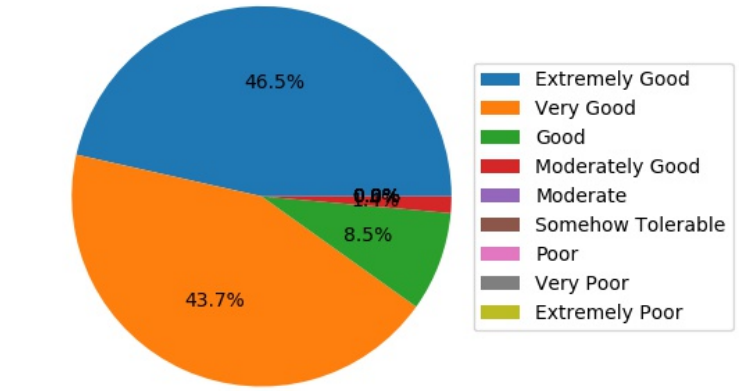
Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?



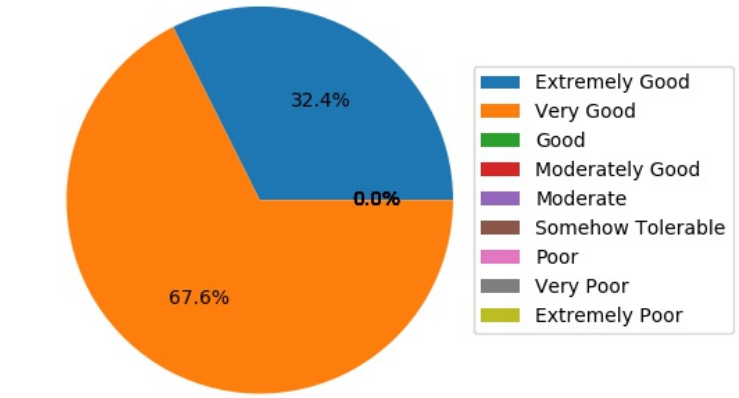
Applicability/relevance to real life situations



Relevance/learning value of project/ report



Overall rating



Alumni Feedback:

Our alumni are valuable for us. They provided us the inputs regarding improvement in facilities and employability of our students. JIS College of Engineering always tries to get alumni feedback to improve the quality of academic programs especially for design and review of the syllabus.We have received total 132 alumni online feedbacks. The findings of the alumni's feedback responses are reported in Table-4.

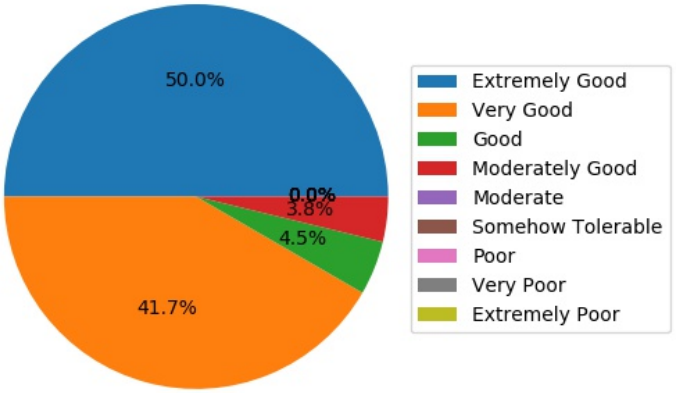
Table 4: Analysis of feedback from Alumni2016-17

Q.No.	Curriculum Evaluation Points	Responses (in terms of percentage of alumni)									Rating
		Extremely Good	Very Good	Good	Moderately Good	Moderate	Somehow Tolerable	Poor	Very Poor	Extremely Poor	Average
1	Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?	50	41.67	4.55	3.79	0	0	0	0	0	8.38	Excellent
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)	46.21	40.91	6.82	6.06	0	0	0	0	0	8.27	Excellent
3	Does the Curriculum satisfy the current industry requirement?	53.79	45.45	0.76	0	0	0	0	0	0	8.53	Excellent
4	Depth of the course content	49.24	44.7	3.79	2.27	0	0	0	0	0	8.41	Excellent
5	Is the Curriculum compatible with the latest technology?	43.94	38.64	11.36	6.06	0	0	0	0	0	8.2	Excellent
6	Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?	43.18	41.67	9.09	6.06	0	0	0	0	0	8.22	Excellent
7	Academic Curriculum	49.24	36.36	9.09	5.3	0	0	0	0	0	8.29	Excellent
8	Applicability/relevance to real life situations	46.97	43.18	6.82	3.03	0	0	0	0	0	8.34	Excellent
9	Relevance/learning value of project/ report	43.94	40.15	15.15	0.76	0	0	0	0	0	8.27	Excellent

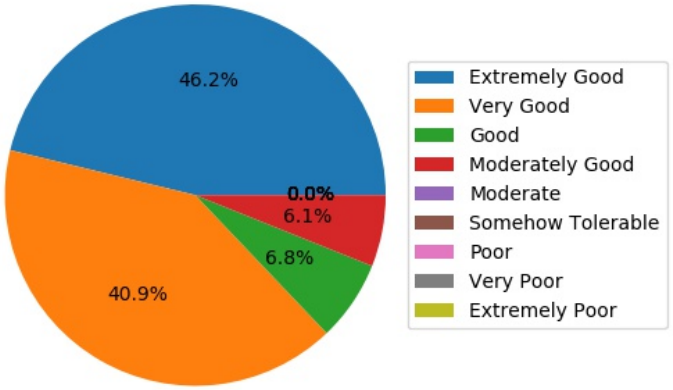
Note: **Average Scores > 8:** excellent; **8≥Average Score>6:** Very Good; **6≥Average Score>4:**Good

Table-4 shows "Excellent" on all parameters where "Does the Curriculum satisfy the current industry requirement?" shows maximum score of (8.53).The parameter "Depth of the course content" shows score of 8.41 which indicates that our alumni are satisfied with the academic curriculum. It is clearly evident from the average scores mentioned in Table-4 that our alumni feel proud to be the student of JIS College of Engineering.From the table of alumni feedback table it is seen that the parameter "Is the Curriculum compatible with the latest technology?" has lowest score (8.2). We should make some changes in the curriculum to increase the compatibility of the curriculum with the latest technology.

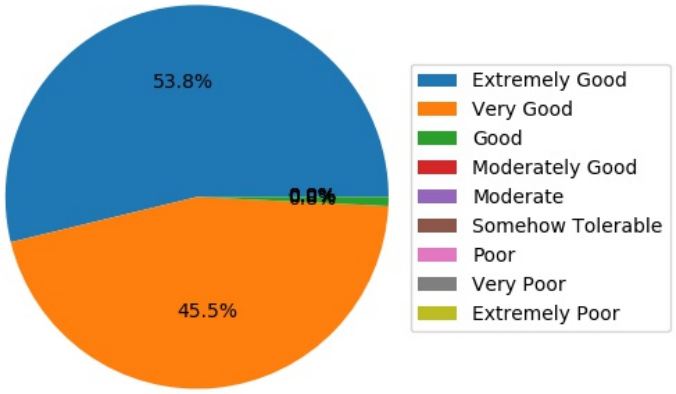
Does the Curriculum enable the application of knowledge of mathematics, science, and technical subjects?



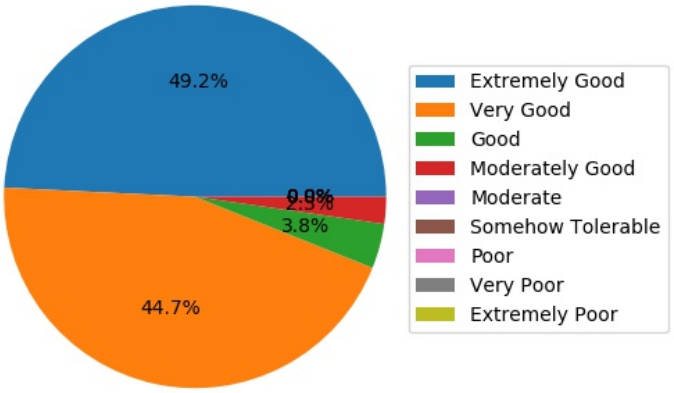
Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)



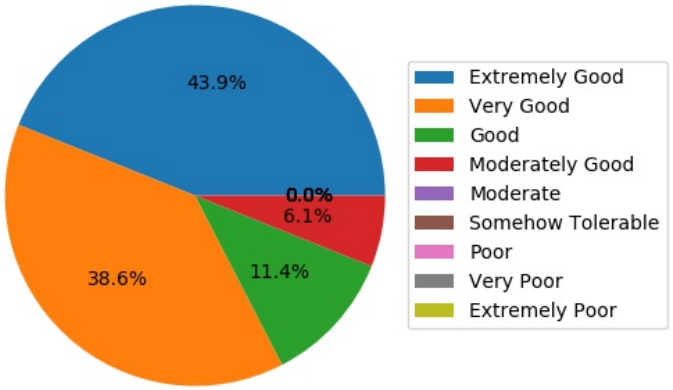
Does the Curriculum satisfy the current industry requirement?



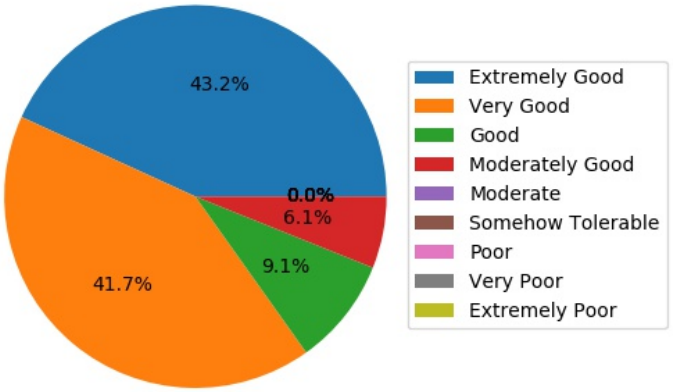
Depth of the course content



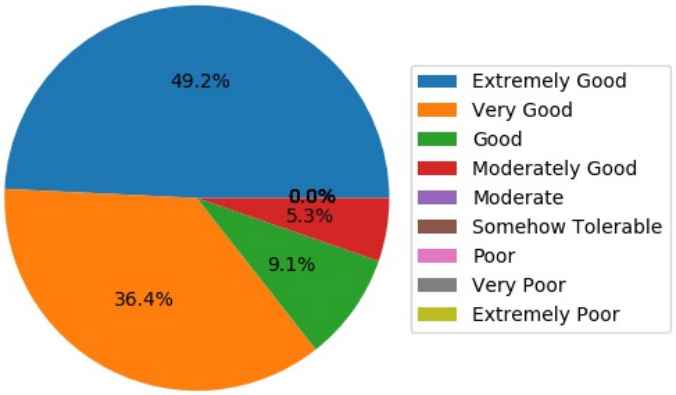
Is the Curriculum compatible with the latest technology?



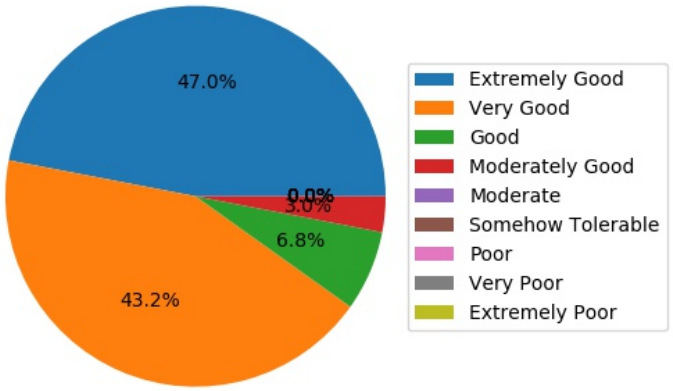
Does the curriculum enable a graduate to identify, formulate and solve problems using engineering knowledge?



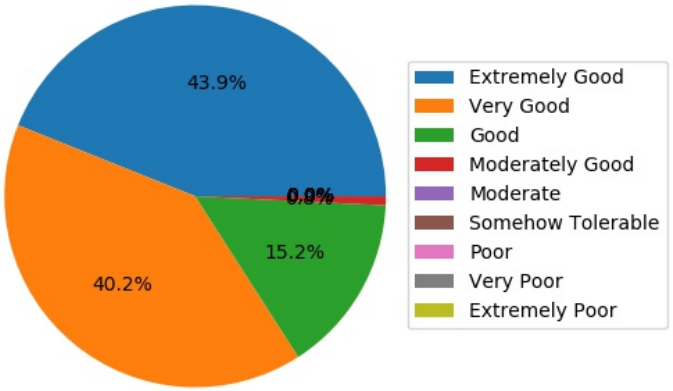
Academic Curriculum



Applicability/relevance to real life situations



Relevance/learning value of project/ report



Action Taken Report (ATR) on Feedback

Sl. No.	Recommendation Based on Feedback	Action Taken
1	Hands on industry level experience on latest programming languages.	➢ Internal and External training are being conducted on different technical fields. ➢ Industry visits for the students in each semesters are being conducted –TCS, SySAlgo Kolkata, Vision Technology, Hash Technology. ➢ Every semesters Dept conducts seminars on “Recent Trends in IT” with Industry experts.
2	Provide project for every domain and Encourage students to do practical projects from the 1st year	➢ Mandatory Projects from 1st -1st Semester have been incorporated in the curriculum
3	Trainings are arranged on	➢ Internal and External training are being conducted on different

	Python, Java to develop more programming skill	technical fields.
4	Audio visual way of teaching and practical case studies should be introduced in curriculum. And Projector must be included in classes	➢ Institute has already introduced the FLIP Learning with Audio Visual way of teaching where students are provided with different case study – Pre class, Post class and In class Assignments; ➢ Flip Class room with world class facility of smart board, Audio Visual Support, Projectors
5	New programming languages (can be optional) can be introduced.	➢ Python has been introduced in the curriculum of IT department. For the students of other departments training classes are arranged to make the students familiar with Python. ➢