

**St. Joseph's College of Engineering
Old Mamalapuram Road, Chennai – 119**

Department of Electrical and Electronics Engineering

**FEEDBACK ANALYSIS OF STAKEHOLDERS AND ACTION
TAKEN REPORT (2020 -2021)**

Feedback was requested from following stakeholders

S.No	Stakeholder	Count
1.	Students	494
2.	Teacher	30
3.	Alumni	10
4.	Employer	10
5.	Parents	30

Feedback Analysis of Stakeholders and Action Taken Report

S.No	Stakeholder	Feedback	Action Taken
1.	Student	<p>Totally 494 students gave their feedback on curriculum for the academic year 2020-2021.</p> <p>Majority of the students strongly agreed that the interaction by teachers with students is more feasible and reliable.</p> <p>Students say that the department encourages free and fearless discussion.</p> <p>During the pandemic, Students believe that the department organizes a number of academic and curricular activities throughout the year and are satisfied with them.</p> <p>Students are satisfied with the direct/indirect involvement in organizing academic and/or co-curricular activities of the department, outside the regular classroom.</p>	<p>From the analysis of the students' feedback report, it is revealed that they are satisfied with the curriculum framed.</p> <p>Faculty members are encouraged to continue the same environment in the department. They are advised to find innovative methods to interact more with the students.</p> <p>Career guidance programs are arranged for the students by our alumni. The knowledge up gradation programs and guest lectures are conducted by the resource persons from the MOU tied organization.</p> <p>Students are encouraged to organize various department programs and IEEE activities to enhance their leadership qualities and organization skills.</p>
2.	Teacher	<p>The faculty members get representations in the Board of Studies, Department Advisory Committee and Academic Council, where the staff members are getting ample opportunities to give feedback, on both curriculum and teaching learning process.</p>	<p>The suggestions given by the faculty members during various meetings are recorded properly and considered for the discussion during the DAC meeting.</p>

		<p>The course can give some holistic approach by integrating with industrial training with assignment project related to industrial needs. Industrial practices can be added in the syllabus.</p> <p>Some case studies could be included. More New Technologies and research trends can be included in the syllabus.</p> <p>Hands on training for different software's must be included.</p>	<p>The requirement for including the industrial practices in curriculum is discussed with the MOU tied company directors & Alumni working with the reputed industries. Industrial training programs are planned for the students based on the inputs. The possibilities of including it in the syllabus is also discussed with the DAC members.</p> <p>Received Autonomous status from December. The newly framed autonomous syllabus gives utmost priority to new technologies and research trends. .</p> <p>The software's required for the electrical students to fulfill the requirements of the industrial needs are identified.</p>
3.	Alumni	<p>From the alumni feedback analysis report, it is evident that majorities of the alumni are happy and proud to be a part of this institution and they agreed that they would recommend their friends and relatives to enroll in this institution.</p> <p>It is highly appreciated by the alumni that the measures taken by the institution in revising the curriculum are as per the emerging trends.</p>	<p>Appreciated the affection shown by the alumni and request them to continue their support.</p> <p>To upgrade the emerging trends in curriculum the department has planned to conduct more alumni meets from group of alumnus and individuals.</p>

4.	Employers	<p>More training for virtual lab and Modern Simulation Tools can be given.</p> <p>More projects on topics AI, renewable and e-vehicles can be encouraged.</p> <p>Virtual technical tours can be organized.</p>	<p>Due to pandemic situation, both odd and even semester laboratories were conducted through IIT provided (www.vlabs.co.in) virtual lab. The labs are conducted using modern simulations tools like Matlab, Etab, Tinker cad simulation, easyEDA design, ki-cad Design.</p> <p>Value added courses are conducted in the field of Renewable energy, E-vehicle for the students. Students are encouraged to do mini projects related to these areas to improve their employability skills.</p> <p>Organized Industrial Virtual tour through AIC NIFT- TEA, Incubation Center for Textiles and Apparels, Tirupur.</p>
5.	Parents	<p>More training for virtual lab and Simulation Tools can be given.</p> <p>Interaction with experts can be improved.</p>	<p>The students are encouraged to register for the various training programs related to virtual lab and simulation tools conducted by NPTEL, Coursera, Udemey.</p> <p>Arranged interaction of Alumni's from various organization.</p>


HOD / EEE

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Principal

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St Joseph's College of Engineering
Old Mamalapuram Road,
Chennai – 119
Department of Electrical and Electronics
Engineering

Academic Year: 2020-21

**FEEDBACK RELATED TO INSTITUTE SUGGESTED BY STAKEHOLDERS/
ACTION TAKEN BY THE INSTITUTION**

1.	Good strategy adopted by teachers for completion of syllabus, should be continued further.	The strategy will be continued.
2.	Online exam should be conducted strictly.	Online examinations are conducted as per guidelines of anna university and strictly followed by institute.
3.	Must conduct workshops on different new upcoming technologies	Online Workshops conducted on as per the requirements of industries needs, suggested by our alumni's. Plan to conduct new technology workshops in future.

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St.JOSEPH'S COLLEGE OF ENGINEERING

OMR, CHENNAI -600 119

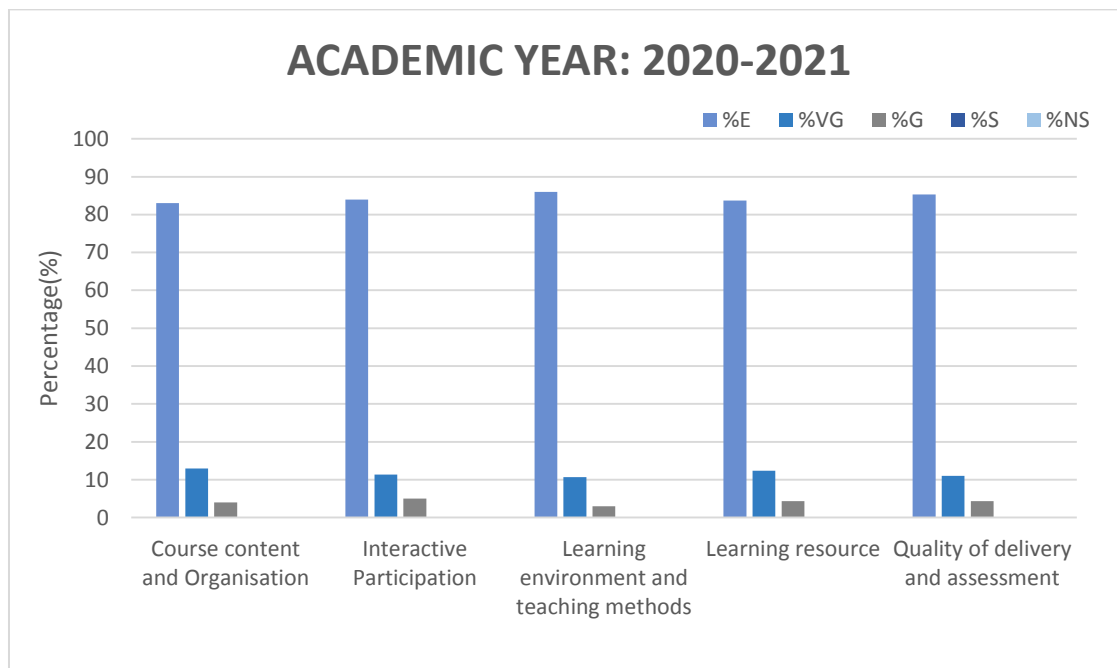
Department of Electrical and Electronics Engineering

COURSE EVALUATION –FEEDBACK BY STUDENT

SAMPLE REPORT

ACADEMIC YEAR: 2020-2021

CORE QUESTIONS	%E	%VG	%G	%S	%NS
Course content and Organisation	83	13	4	0	0
Interactive Participation	84	11	5	0	0
Learning environment and teaching methods	86	11	3	0	0
Learning resource	84	12	4	0	0
Quality of delivery and assessment	85	11	4	0	0





St.JOSEPH'S COLLEGE OF ENGINEERING

OMR, CHENNAI -600 119

Department of Electrical and Electronics Engineering

Students' Feedback

The college has obtained feedback on curriculum from students through questionnaire which contains the following major aspects such as Course content & Organisation, Interactive participation, Learning environment & teaching methods, Learning resource and Quality of delivery and assessment. Totally 145 students gave their feedback on curriculum for the academic year 2020-2021. 83% of the students population agreed that the allocation of course content is appropriate in relation to the level of course content is very much appropriate to the programme. Majority of the students strongly agreed that the interaction by teachers with students are more feasible and reliable. Around 86% of the students agreed that they are equipped with necessary teaching methods required for their programme. It is observed that 84% of the students agreed that the provision for learning resource in library was adequate and appropriate with their respective field of specialisation areas. The feedback revealed that 85% of them are strongly agreed about the quality of delivery and the internal assessment for the specified programme. Some of the students suggested that it would be very helpful if the Placement training can be organised from the reputed premises can also be included as a part of the curriculum.

Feedback analysis report

- ✚ From the analysis of the students' feedback it is revealed that they are satisfied with the curriculum framed.
- ✚ It is reported by the students that the teaching methods are more feasible.
- ✚ The feedback obtained from the students that they required the tutorial classes for the problematic subjects in the curriculum.

HOD/EEE

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ST. JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI – 119
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020 – 2021 (ODD SEMESTER)
FEEDBACK ANALYSIS CONSOLIDATED REPORT



II Year

SUB CODE	SUBJECT	NAME OF THE FACULTY 'A' SEC	FEEDBACK PERCENTAGE	NAME OF THE FACULTY 'B' SEC	FEEDBACK PERCENTAGE	NAME OF THE FACULTY 'C' SEC	FEEDBACK PERCENTAGE
MA8351	Transforms and Partial Differential Equations	Dr G Purushothaman	88.84	Mr K S Sudhakhar	86.85	Ms D Arivukkodi	88.78
EE8351	Digital Logic Circuits	Dr P Anbarasan	87.57	Ms S Gomathi	93.70	Ms R Sujatha	89.18
EE8391	Electromagnetic Theory	Mr N Jeyaprakash	83.44	Dr V Krishnakumar	93.65	Mr T Sri AnandaGanesh	87.73
ME8791	Power Plant Engineering	Dr P Velmurugan	84.06	Dr M Venmathi	93.88	Mr S Sridharan	89.14
EC8351	Electronic Devices and Circuits	Dr T V Narmadha	83.96	Ms R G Nirmala	88.66	Mr S Nishant	86.71
EE8301	Electrical Machines – I	Mr H Umesh Prabhu	82.40	Mr R Sreekanth	89.55	Mr M Chilambarasan	87.96

HOD/EEE

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ACADEMIC YEAR 2020 – 2021 (ODD SEMESTER)
FEEDBACK ANALYSIS CONSOLIDATED REPORT



III Year

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EE6501	Power System Analysis	Dr M Ramesh Babu	84.31	Dr N Chidambararaj	89.17	Mr.K.Aravindhan	83.88
EE6502	Micro Processor and Micro Controllers	Mr N Jeyaprakash	87.22	Dr V Chamundeeswari	80.94	Mr.H.Umesh Prabhu	81.98
EE8552	Power Electronics	Mr R Elanthirayan	88.54	Dr. Jayarama Pradeep	86.23	Ms S P Vedavalli	85.85
EE8591	Digital Signal Processing	Mr S Sridharan	85.65	Dr P Anbarasan	88.13	Dr T D Sudhakar	81.16
CS8392	Object Oriented Programming	Ms M Shalini	82.68	Ms M Shalini	79.88	Ms Jenif D Souza	81.08
OMD551	Basics of Biomedical instrumentation	Dr V Vasanth Prabhu	86.34	Ms R G Nirmala	85.28	Dr P Velmurugan	82.98


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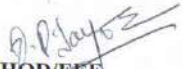


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ACADEMIC YEAR 2020 - 2021 (ODD SEMESTER)
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EE8701	High Voltage Engineering	Dr M Ramesh Babu	89.33	Mr.C.Venkatesh kumar	89.15	Mr.R.Sreekanth	87.36
EE8702	Power System operation and control	Mr H Prasad	86.46	Dr M Venmathi	90.34	Dr T D Sudhakar	87.71
EE8703	Renewable Energy Systems	Ms S P Vedavalli	90.23	Dr V Vasan Prabhu	89.70	Dr V Chamundeeswari	85.44
GE8071	Disaster Management (A & B Sections)	Mr M Chilambarasan	91.41		92.80		87.45
GE8074	Human Rights (C Section)			Ms S Gomathi		Ms M Sumitha	
GE8077	Total Quality Management	Dr V Krishnakumar	95.66	Mr V Balasubramanian	91.90	Ms R Sujatha	90.89
OCS752	Introduction to C Programming	Dr V Anjana Devi	90.25	Dr F Sangeetha Francelin Vinnarasi	90.68	Ms S Janani	86.67


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ACADEMIC YEAR 2020 - 2021 (EVEN SEMESTER)
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MA8491	NUMERICAL METHODS	Dr P Agilan Ms D Arivukkodi	91.66	Mr S M Balaji Mr C Sankar	89.72	Dr G Purushothaman Dr K Suresh	93.33
EE8401	ELECTRICAL MACHINES II	Dr M Ramesh Babu	89.87	Mr M Chilambarasan	90.40	Ms R G Nirmala	88.43
EE8402	TRANSMISSION AND DISTRIBUTION	Mr R Sreekanth	93.91	Mr C Venkatesh Kumar	90.70	Dr T D Sudhakar	89.42
EE8403	MEASUREMENTS AND INSTRUMENTATION	Mr R Elanthirayan	86.81	Mr.T.Sriananda Ganesh	89.79	Dr P Velmurugan	88.90
EE8451	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS	Dr .V.Chamundeeswari	88.71	Dr S Sridharan	89.70	Dr M Venmathi	91.61
IC8451	CONTROL SYSTEMS	Dr V Krishna Kumar	95.52	Dr T V Narmadha	91.68	Dr P Anbarasan	93.19


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ACADEMIC YEAR 2020 – 2021 (EVEN SEMESTER)
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EE8601	Solid State Drives	Ms.S.Gomathi	89.29	Mr.M.Chilambarasan	88.81	Mr. Nishant S	64.63
EE8602	Protection & Switchgear	Mr.R.Sreekanth	89.93	Mr.K.Aravindhan	86.00	Mr. Prasad H	79.45
EE8691	Embedded Systems	Mr V Balasubramanian	89.59	Mr. H. UmeshPrabhu	79.95	Dr S Sridharan	85.51
EE8002	Design of Electrical Apparatus (Professional Elective - I)	Dr.Jayarama Pradeep	90.25	Mr.N.Jeyaprakash	90.29	Dr.N.Chidambararaj	93.42
EE8005	Special Electrical Machines (Professional Elective - II)	Dr A Jamna	90.25	Mr.R.Elanthirayan	91.83	Ms.M.Sumitha	89.74


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020 – 2021 (EVEN SEMESTER)
FEEDBACK ANALYSIS CONSOLIDATED REPORT



IV Year

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EE8016	Energy Management and Auditing	Dr M Venmathi	92.60	Dr .V.Chamundeeswari	90.40	Dr. M.RameshBabu	94.61
		Mr.C.Venkatesh Kumar	92.78	Dr.N.Chidambararaj	92.72	Ms.S.P.Vedavalli	96.76
GE8076	Professional Ethics in Engineering	Dr.T.D.Sudhiakar	91.59	Dr P Anbarasan	93.09	Dr.V.Krishnakumar	97.71
		Mr.S.Nishant	88.51	Mr.H.Prasad	86.25	Mr.V.Balasubramanian	96.06


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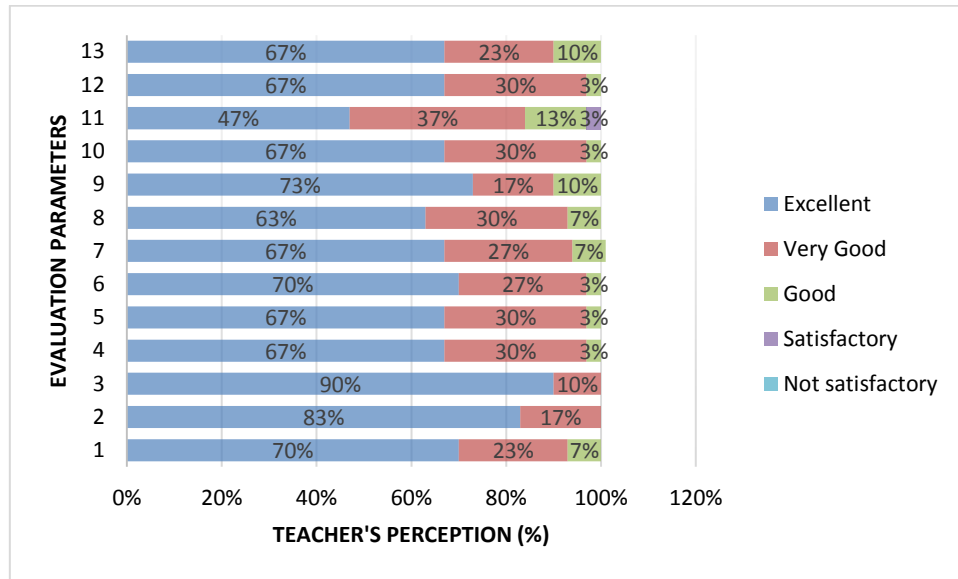
St. JOSEPH'S COLLEGE OF ENGINEERING
Department of Electrical and Electronics Engineering
TEACHER'S FEEDBACK ON CURRICULUM - ANALYSIS

Academic Year: 2020-21 (ODD)

Grade : 5-Excellent, 4-Very Good, 3- Good, 2- Satisfactory, 1- Not satisfactory (Use the following scale to grade the Courses)

S. No	Details	5	4	3	2	1
1.	Curriculum is based on the needs of the stake holders	70%	23%	7%	0%	0%
2.	Course objectives and Outcomes of the course are well defined and clear to faculty and students	83%	17%	0%	0%	0%
3.	Sufficient number of prescribed books are available in the library	90%	10%	0%	0%	0%
4.	The course has good balance between theory and application.	67%	30%	3%	0%	0%
5.	The course has made me interested in the subject area.	67%	30%	3%	0%	0%
6.	The course has increased knowledge potential in its application	70%	27%	3%	0%	0%
7.	Book facilities and other amenities like projectors, softwares etc., are available in the department	67%	27%	7%	0%	0%
8.	Tests and Examinations are conducted at appropriate time with proper coverage of planned units according to the college working schedule / academic schedule of Anna university.	63%	30%	7%	0%	0%
9.	I have the freedom to adopt new techniques of teaching such as seminar presentations, group discussions, demonstration and student's participations.	73%	17%	10%	0%	0%
10.	Syllabus contain necessary technical skills for the students to face the industry needs	67%	30%	3%	0%	0%
11.	The electives offered are relevant to the specialization streams and to the technological advancements.	47%	37%	13%	3%	0%
12.	The laboratory experiments enhance the students in understanding the concepts and enable them to relate theory to practice (Experiential learning).	67%	30%	3%	0%	0%
13.	Facilities are provided for teaching and to adopt current trends / research.	67%	23%	10%	0%	0%

CHART ANALYSIS 2020-21



TEACHERS FEEDBACK ON CURRICULUM

- The examination report of the educators' criticism uncovers that they are exceedingly happy with the structure of the educational modules.
- The proposals given by them identified with explicit subjects were noted for further activity.

The College has made it a practice to conduct all faculty meeting, once in the starting of the semester, where the ways and means of enhancing the curriculum, academic discipline, Teaching Learning process and Research and Extension activities are discussed. During such meetings, the individual faculty members express their honest opinion on the curriculum; research and extension activities and the same would be debated and discussed. The appropriate suggestions are put forward to the respective councils for implementations. The faculty members get representations in the Board of Studies, Department Advisory Committee and Academic Council, where the staff members are getting ample opportunities to give feedback, on both curriculum and teaching learning process. Based on the feedback obtained, various industrial visits and students workshops are organised to fill the gap in the curriculum.

Feedback analysis report:

- The analysis report of the teachers' feedback reveals that they are highly satisfied with the framework of the curriculum.
- The suggestions given by them related to specific subjects were noted for further action.
- Hands on training for different software's must be included.
- Guest lectures and value added courses were provided to the students.


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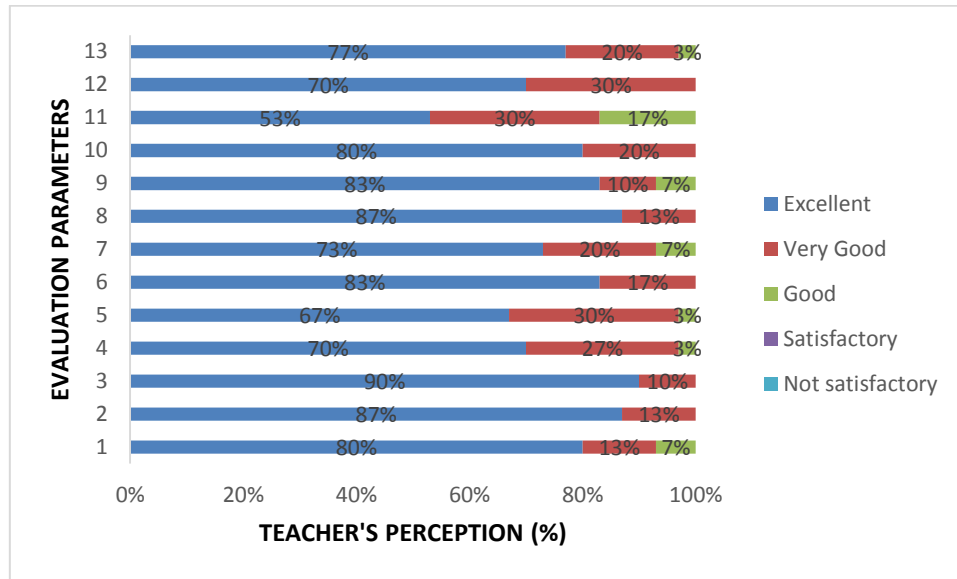
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S. No	Details	5	4	3	2	1
1.	Curriculum is based on the needs of the stake holders	80%	13%	7%	0%	0%
2.	Course objectives and Outcomes of the course are well defined and clear to faculty and students	87%	13%	0%	0%	0%
3.	Sufficient number of prescribed books are available in the library	90%	10%	0%	0%	0%
4.	The course has good balance between theory and application.	70%	27%	3%	0%	0%
5.	The course has made me interested in the subject area.	67%	30%	3%	0%	0%
6.	The course has increased knowledge potential in its application	83%	17%	0%	0%	0%
7.	Book facilities and other amenities like projectors, softwares etc., are available in the department	73%	20%	7%	0%	0%
8.	Tests and Examinations are conducted at appropriate time with proper coverage of planned units according to the college working schedule / academic schedule of Anna university.	87%	13%	0%	0%	0%
9.	I have the freedom to adopt new techniques of teaching such as seminar presentations, group discussions, demonstration and student's participations.	83%	10%	7%	0%	0%
10.	Syllabus contain necessary technical skills for the students to face the industry needs	80%	20%	0%	0%	0%
11.	The electives offered are relevant to the specialization streams and to the technological advancements.	53%	30%	17%	0%	0%
12.	The laboratory experiments enhance the students in understanding the concepts and enable them to relate theory to practice (Experiential learning).	70%	30%	0%	0%	0%
13.	Facilities are provided for teaching and to adopt current trends / research.	77%	20%	3%	0%	0%

CHART ANALYSIS 2020-21



TEACHERS FEEDBACK ON CURRICULUM

- The examination report of the educators' criticism uncovers that they are exceedingly happy with the structure of the educational modules.
- The proposals given by them identified with explicit subjects were noted for further activity.

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Feedback analysis report:

- The analysis report of the teachers' feedback reveals that they are satisfied with the framework of the curriculum.
- The course can give some holistic approach by integrating with industrial training with assignment project related to industrial needs. Industrial practices can be added in the syllabus.
- Some case studies could be included. More New Technologies and research trends can be included in the syllabus.


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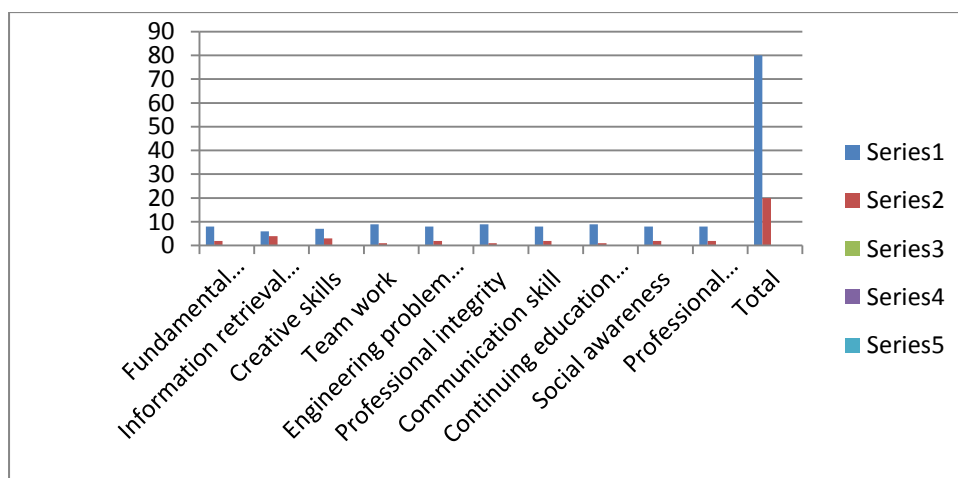
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Department of Electrical and Electronics Engineering

Exit Survey

Academic year: 2020-2021

Batch: 2017-2021

Parameters	Excellent	Very Good	Good	Satisfactory	Not Satisfactory
Fundamental engineering analysis skill	8	2	0	0	0
Information retrieval skill	6	4	0	0	0
Creative skills	7	3	0	0	0
Team work	9	1	0	0	0
Engineering problem solving skills	8	2	0	0	0
Professional integrity	9	1	0	0	0
Communication skill	8	2	0	0	0
Continuing education awareness	9	1	0	0	0
Social awareness	8	2	0	0	0
Professional development	8	2	0	0	0
Total	80	20	0	0	0



Strength

1. Staffs are very pious to give lecture in the class.
2. Staffs motivated the students to improve their knowledge according to recent trends.
3. Very good placement training program for the students and good exposure about opportunities.
4. Online portal notes and previous year university question paper with solutions.

Weakness

1. Prepare detailed database of the alumni and to improve the alumni activities.
2. Need more value added courses.
3. Internship has to be improved.
4. Opportunity is less in core field.
5. Training programs are needed in the recent technologies like artificial intelligence, blockchain and machine learning.



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St. Joseph's College of Engineering
OMR, Chennai
Department of Electrical and Electronics Engineering

Alumni Survey

Academic Year: 2020-2021

Alumni feedback was obtained from nearly 105 alumni for the academic year 2020-2021. The institution believes that the contribution of alumni is essential particularly in the development of the curriculum related activities. They thanked the management for establishing an excellent infrastructure and modern equipped labs. They admired and appreciated the efforts taken by the facilities in realising their goals. The feedback from the alumni reveals that 100% of them feel proud to be a part of the institution and are willing to contribute to the development of the institution. Majority of alumni rated the developmental activities rendered by the college for their overall development as highly efficient. They expressed their gratitude towards P&T department for providing various soft skills training and conducting online placement tests at different level of their course which made them more competent. Regarding the residential facilities, 50% of them who were in hostel rated that the food and accommodation facilities as highly efficient. Student teacher relationship, 80% of them rated that as highly efficient. While expressing their view on the career guidance and counselling as well as placement cell, 100% of them agreed that ample on campus and off campus opportunities were provided. They also interacted with present students. The overall strength and weakness of the department from the alumni are summarized below.

Strength

1. Experienced and well qualified faculty members.
2. Excellent infrastructure.
3. Mentoring and career guidance.
4. Good placement training throughout the course.
5. Subjects are completed well in advance.
6. Always tries to improve educational quality among students.

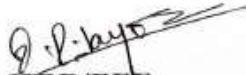
7. Value Added Course enhances the skills and knowledge for professional development.
8. Well planned academic schedule.
9. Faculties take effective care for improving student's education and providing good notes.

Weakness

1. Electric vehicle technology may be included in the curriculum.
2. Latest course like artificial intelligence, blockchain and machine learning need to be included in the curriculum.
3. Need more industry interaction to improve their knowledge.
4. Need more value added courses based on current scenario.
5. Students have to be sent for internship to improve their industrial knowledge.
6. Frequent alumni interactions can be arranged.

Feedback analysis report

- From the alumni feedback analysis report, it is evident that majority (100%) of the alumni are happy and proud to be a part of this institution and they agreed that they would recommend their friends and relatives to enrol in this institution.
- It is highly appreciated by the alumni that the measures taken by the institution in revising the curriculum are as per the emerging trends


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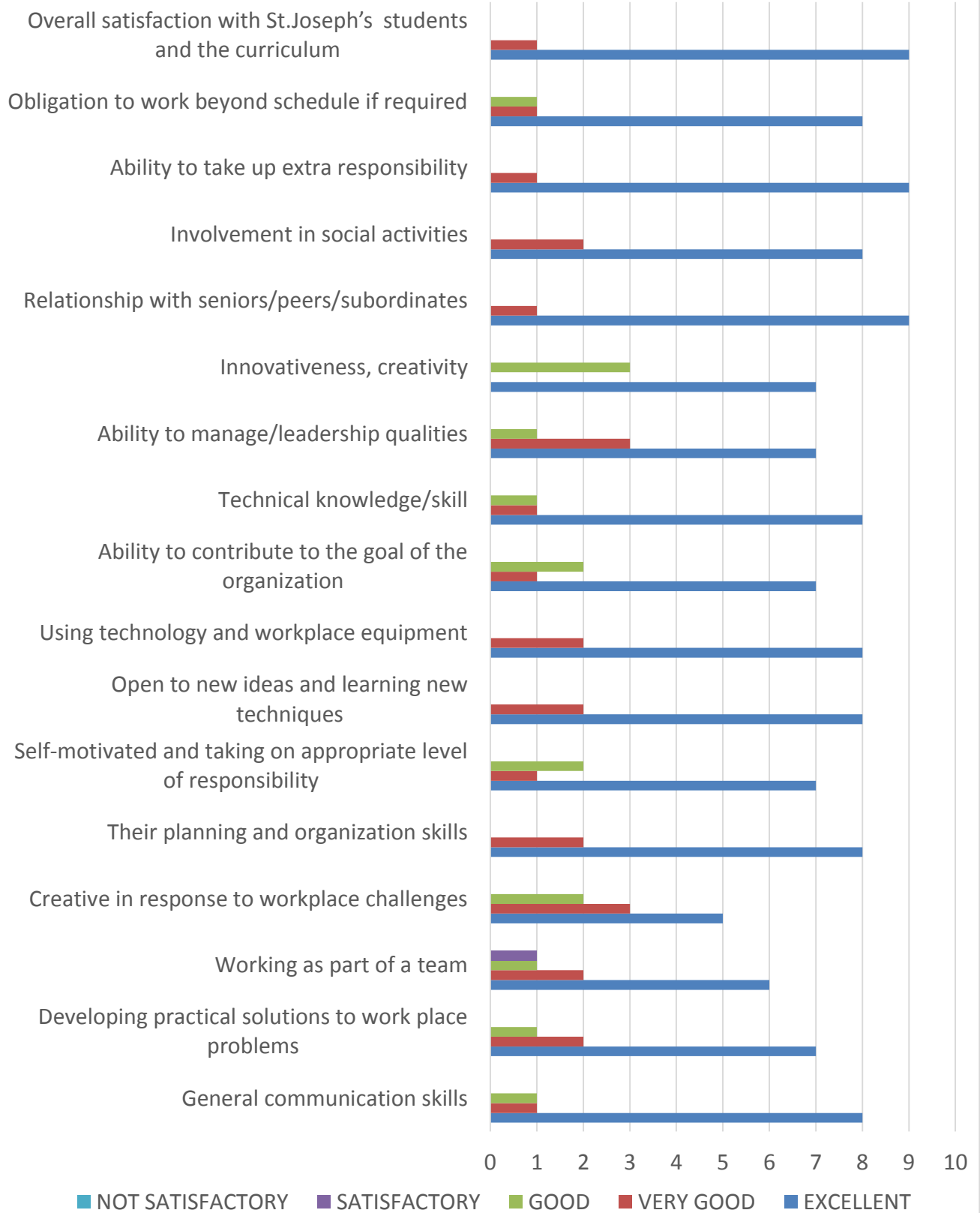
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Employer Feedback Analysis

Academic Year: 2020-2021

Sl.No.	Particulars	EXCELLENT	VERY GOOD	GOOD	SATISFACTORY	NOT SATISFACTORY
1.	General communication skills	8	1	1	0	0
2.	Developing practical solutions to work place problems	7	2	1	0	0
3.	Working as part of a team	6	2	1	1	0
4.	Creative in response to workplace challenges	5	3	2	0	0
5.	Their planning and organization skills	8	2		0	0
6.	Self-motivated and taking on appropriate level of responsibility	7	1	2	0	0
7.	Open to new ideas and learning new techniques	8	2	0	0	0
8.	Using technology and workplace equipment	8	2	0	0	0
9.	Ability to contribute to the goal of the organization	7	1	2	0	0
10.	Technical knowledge/skill	8	1	1	0	0
11.	Ability to manage/leadership qualities	7	3	1	0	0
12.	Innovativeness, creativity	7	0	3	0	0
13.	Relationship with seniors/peers/subordinates	9	1	0	0	0
14.	Involvement in social activities	8	2	0	0	0
15.	Ability to take up extra responsibility	9	1	0	0	0
16.	Obligation to work beyond schedule if required	8	1	1	0	0
17.	Overall satisfaction with St. Joseph's students and the curriculum	9	1	0	0	0

Employer Feedback



Feedback

- More training for virtual lab and Modern Simulation Tools can be given
- More projects on topics AI, renewable and e-vehicles can be encouraged.
- Virtual technical tours can be organized.



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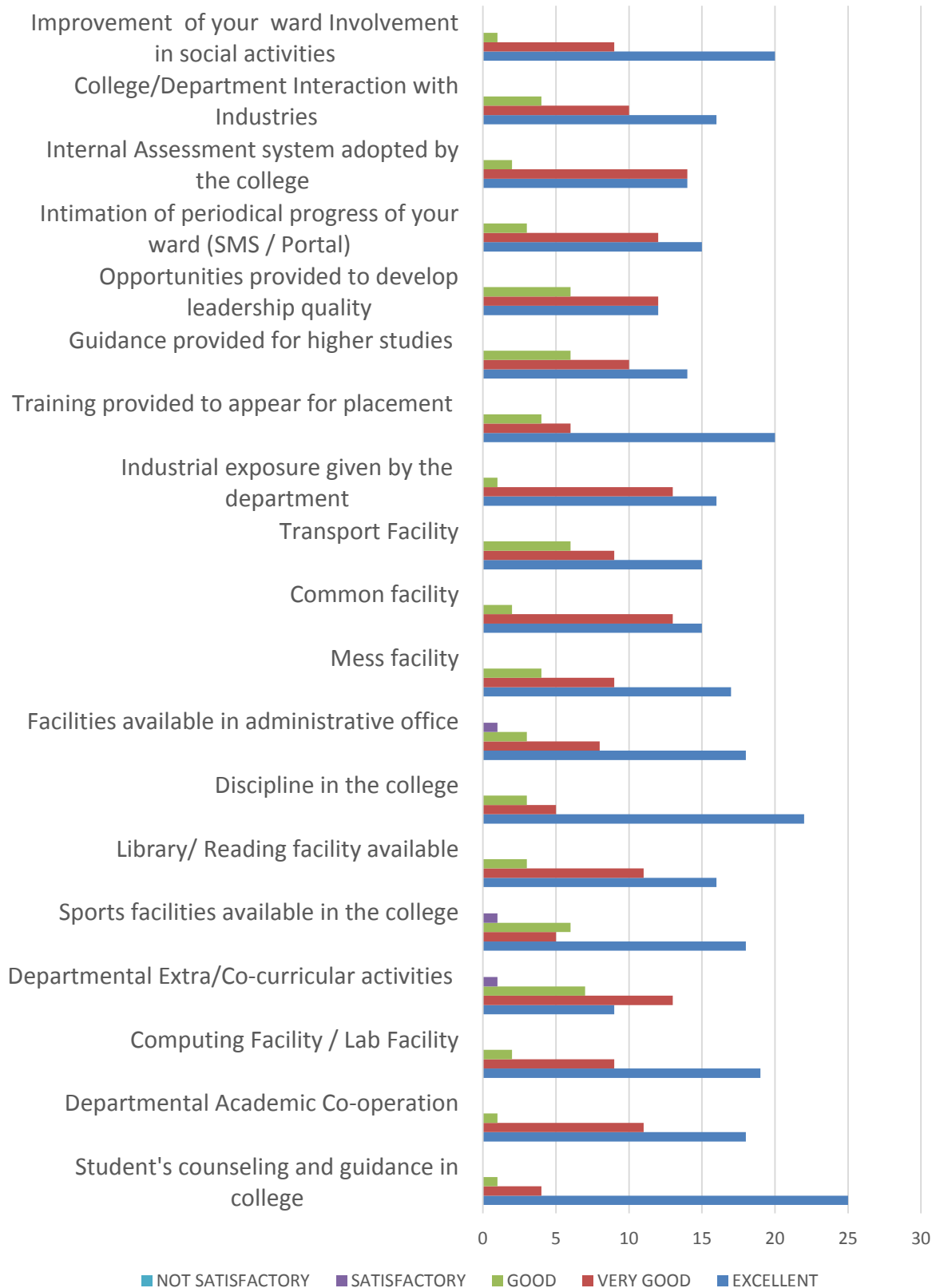
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Feedback Analysis of Parents

Academic Year: 2020-2021

S.No	Particulars	EXCELLENT	VERY GOOD	GOOD	SATISFACTORY	NOT SATISFACTORY
1.	Student's counseling and guidance in college	25	4	1	0	0
2.	Departmental Academic Co-operation	18	11	1	0	0
3.	Computing Facility / Lab Facility	19	9	2	0	0
4.	Departmental Extra/Co-curricular activities	9	13	7	1	0
5.	Sports facilities available in the college	18	5	6	1	0
6.	Library/ Reading facility available	16	11	3	0	0
7.	Discipline in the college	22	5	3	0	0
8.	Facilities available in administrative office	18	8	3	1	0
9.	Mess facility	17	9	4	0	0
10.	Common facility	15	13	2	0	0
11.	Transport Facility	15	9	6	0	0
12.	Industrial exposure given by the department	16	13	1	0	0
13.	Training provided to appear for placement	20	6	4	0	0
14.	Guidance provided for higher studies	14	10	6	0	0
15.	Opportunities provided to develop leadership quality	12	12	6	0	0
16.	Intimation of periodical progress of your ward (SMS / Portal)	15	12	3	0	0
17.	Internal Assessment system adopted by the college	14	14	2	0	0
18.	College/Department Interaction with Industries	16	10	4	0	0
19.	Improvement of your ward Involvement in social activities	20	9	1	0	0

Parents Feedback



Feedback

- More training for virtual lab and Simulation Tools can be given.
- Interaction with experts can be improved.



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