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St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119



**DEPARTMENT OF
ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**FEEDBACK ANALYSIS OF STAKEHOLDERS
AND ACTION TAKEN REPORT FOR THE
ACADEMIC YEAR 2023-2024**



St. Joseph's College of Engineering, being unique from its very inception and foundation, has emerged as a benchmark of excellence and innovation. With quality sustenance our college has developed the feedback mechanism commencing with obtaining feedback from the following stakeholders through a structured rating-based feedback form:

1. Students
2. Parents
3. Employers
4. Teachers
5. Alumni.

With the fast-changing scenario of teaching learning process it becomes necessary to identify the expectation and aspirations of all the stakeholders in an Institution. It is only possible through sharing of ideas from stakeholders for the scope of improvement in the system.

Feedback was sorted and the opinion obtained for each parameter is represented as percentage of total number of feedback response obtained for that parameter represented in parentheses. All kinds of feedback are taken constructively, and suggestions are incorporated for the better. It helps us to optimize our performance and be successful.

S. No	STAKEHOLDER	COUNT
1.	Students	157
2.	Faculty	12
3.	Alumni	15
4.	Employer	15
5.	Parents	30



FEEDBACK ANALYSIS OF STAKEHOLDERS AND ACTION TAKEN
REPORT

Academic Year 2023-2024

S.N O	Stakeholder	Feedback	Actions Taken
1	Student	Relevance of curriculum to real life situation	<p>Value added course were offered outside the curriculum to bridge the gap between academia and Industry requirements on,</p> <ol style="list-style-type: none"> 1. Embedded systems (Online) 2. Sensor application using Arduino and raspberry pi 3. Artificial Intelligence in data Science 4. Robotic process automation 5. IoT application Development <p>To enhance the knowledge of students, Guest lecture on these topics were offered,</p> <ol style="list-style-type: none"> 1. Challenges and Opportunities in ongoing Industry 4.0 2. Trends in Industrial Automation 3. Raspberry Pi and IoT 4. Opportunities of Instrumentation Engineering Graduates-Through GATE
2	Teacher	Suggested to improve Elective papers. Curriculum incorporates recent changes.	<p>Same was considered for the discussion during DAC meeting.</p> <p>Staffs have been attending seminars, workshops and FDPs to update their knowledge to integrate to their respective subjects.</p>
3	Alumni	Involve alumni in placement cell. Efforts taken to improve curriculum was appreciated.	<p>Prestigious alumina was invited to give motivational talks to the students.</p> <p>Students are advised to undergo implant training, internship to corelate the syllabus and solve real world problem which would make them aware about the industry standards in various domains.</p>
4	Employers	Familiarize with competitive programming. Promote Teamwork.	<p>Significance of Skill rack test is insisted and regularly monitored by the assigned mentors.</p> <p>Extension activities for social and</p>



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			environment sensitization are conducted.
5	Parents	System of Monitoring Students Progress. Share alumni data base with students for direct interaction.	Frequency of active mentoring session is increased. The Placement & Career Guidance Cell is strengthened to orient students about employment avenues.

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**FEEDBACK RELATED TO INTITUTE SUGGESTED BY STAKEHOLDERS AND
ACTION TAKEN**

Academic Year 2023-2024

	FEEDBACK	ACTION TAKEN
1.	Efforts taken to connect with the students during pandemic period for attending class lectures is commendable.	Word of Appreciation kept us motivated during the tough times.
2.	Balance between theory and practical aspects of the Course is required.	Value added course were organized by inviting experts to impart practical aspects of the course to the students.
3.	Extent of effort is required by the students.	Engaged students in mentor-mentee program. Conducted Academic Performance Meetings periodically and encouraged students to perform well.

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COURSE EVALUATION – FEEDBACK BY STUDENT

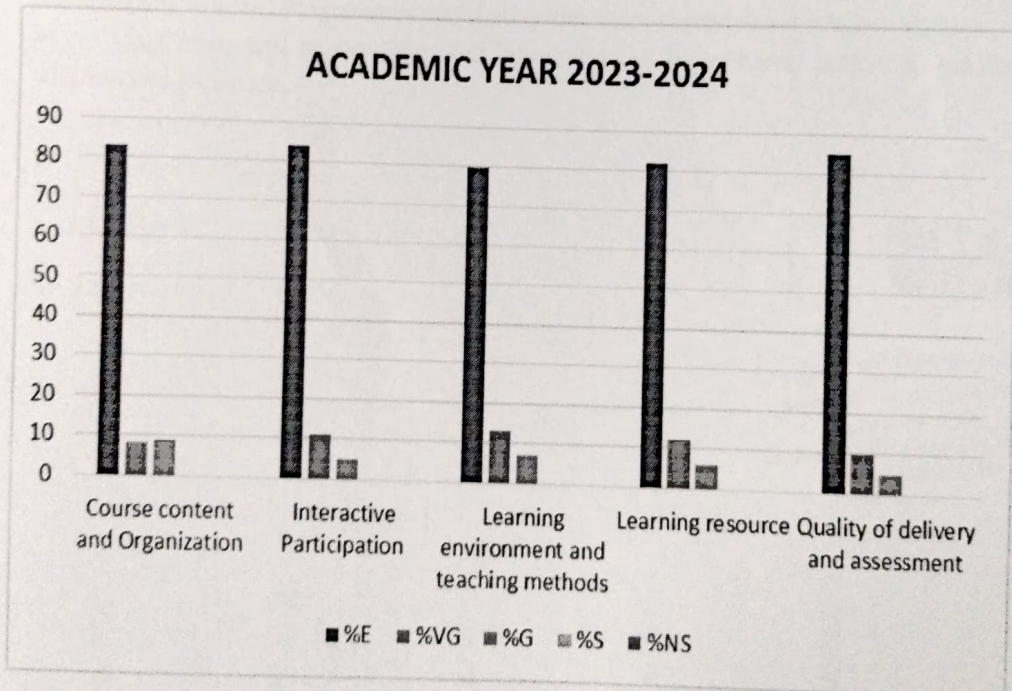
SAMPLE REPORT

ACADEMIC YEAR: 2023-2024

Survey Analysis:

CORE QUESTIONS	%E	%VG	%G	%S	%NS
Course content and Organization	83	8	9	0	0
Interactive Participation	84	11	5	0	0
Learning environment and teaching methods	80	13	7	0	0
Learning resource	82	12	6	0	0
Quality of delivery and assessment	85	10	5	0	0

Chart Analysis:





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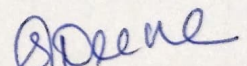


Analysis Report:

The students feedback questionnaire encompasses quantitative and qualitative answers, focused on the quality of the in-course content, learning material, views about theory/practical courses, and services extended to them by the institute. Continuous improvement in the scheme has shown positive feedback by the students. Most students have shown their satisfaction with their classroom experience with the faculties opting for different teaching styles including PPTs, animations, prototypes, and incorporating interactive elements, problem-solving methodologies that have real-world relevance and provides appropriate challenges to support and enhance their learning process. Mentors are in endeavour to strive towards the overall wellbeing of student and most of the student's participants have positively expressed their contentment with the resolution of any query related to academic or personal.

Suggestions:

- Formulation of syllabi that bridges the gap between theory and praxis, offering opportunities for field experiences, hands-on learning, skill development, and more professionally oriented programmes that shall enable them to participate in the workplace.
- More placement opportunities and information on future career options to aid field selection was requested.


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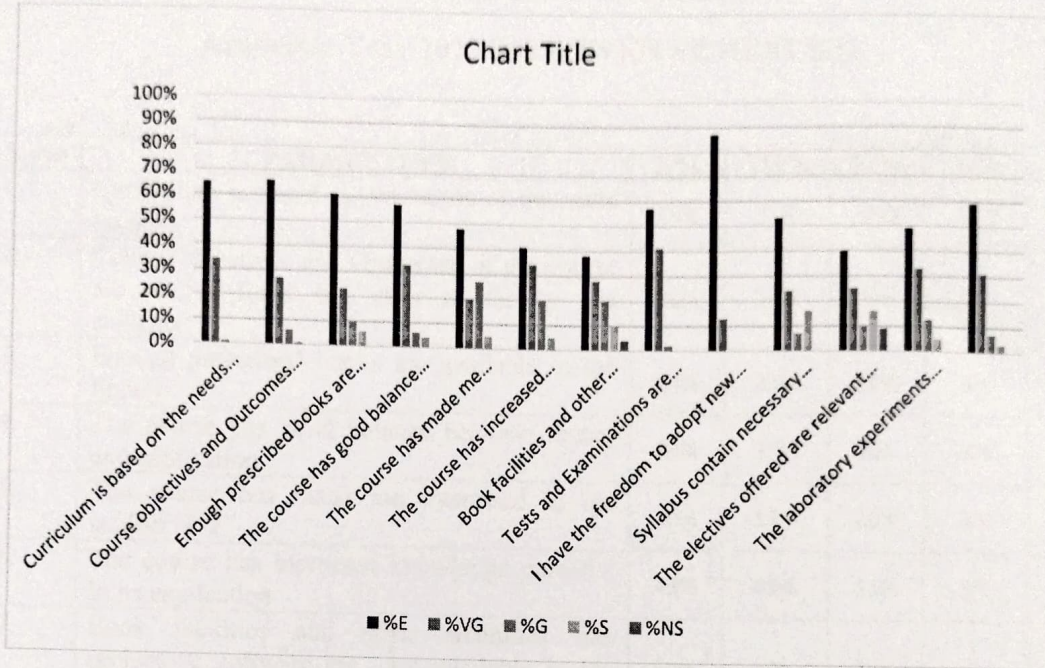
TEACHER'S FEEDBACK ON CURRICULUM

Academic Year 2023-2024 (ODD SEMESTER)

S. No	PARAMETERS	E%	VG%	G%	S%	NS%
1.	Curriculum is based on the needs of the stake holders	65%	34%	1%	0%	0%
2.	Course objectives and Outcomes of the course are well defined and clear to faculty and students	66%	27%	6%	1%	0%
3.	Enough prescribed books are available in the library	61%	23%	10%	6%	0%
4.	The course has good balance between theory and application.	57%	33%	6%	4%	0%
5.	The course has made me interested in the subject area.	48%	20%	27%	5%	0%
6.	The course has increased knowledge potential in its application	41%	34%	20%	5%	0%
7.	Book facilities and other amenities like projectors, software etc., are available in the department	38%	28%	20%	10%	4%
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.	57%	41%	2%	0%	0%
9.	I have the freedom to adopt new techniques of teaching such as seminar presentations, group discussions, demonstration, and student's participations.	87%	13%	0%	0%	0%
10.	Syllabi contain necessary technical skills for the students to face the industry needs	53%	24%	7%	16%	0%
11.	The electives offered are relevant to the specialization streams and to the technological advancements.	40%	25%	10%	16%	9%
12.	The laboratory experiments enhance the students in understanding the concepts and enable them to relate theory to practice (Experiential learning).	49%	33%	13%	5%	0%
13.	Facilities are provided for teaching and to adopt current trends / research.	59%	31%	7%	3%	0%



Chart Analysis:



Analysis Report:

- As teachers play a pivotal role in designing and implementing the curriculum, the inputs received from their feedback was taken into consideration for further necessary action wherever applicable.
- The staff members showed a strong opinion that the department facilitates a conducive environment for teaching learning process.
- They also expressed that tests and examinations were conducted well in time with proper coverage of syllabus.

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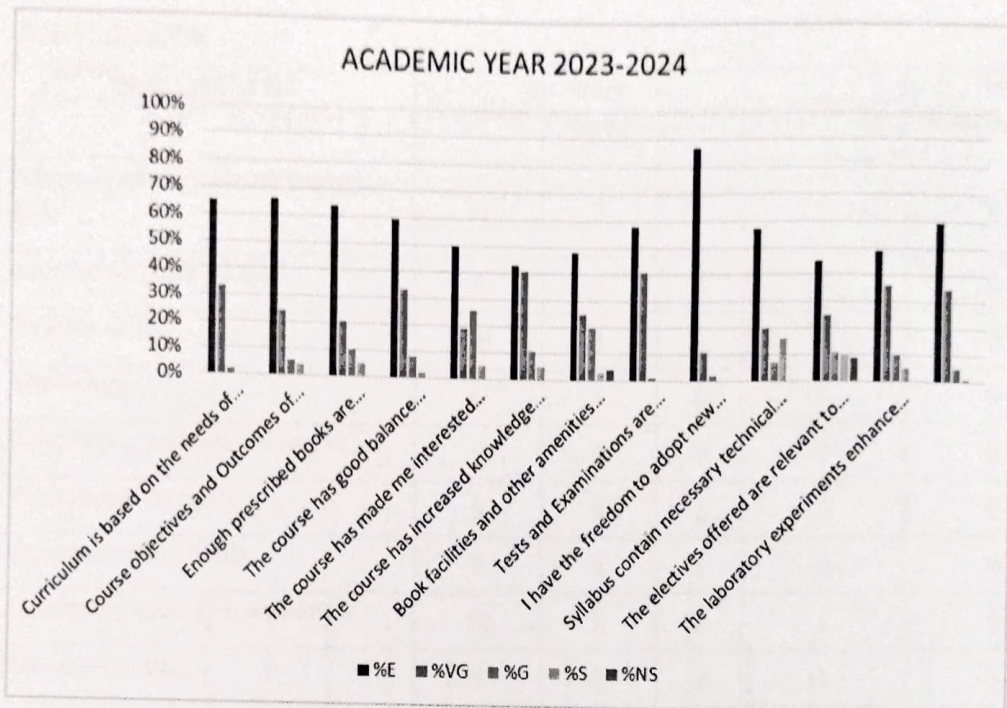
TEACHER'S FEEDBACK ON CURRICULUM

Academic Year 2023-2024 (EVEN SEMESTER)

S. No	PARAMETERS	E%	VG%	G%	S%	NS%
1.	Curriculum is based on the needs of the stake holders	65%	33%	2%	0%	0%
2.	Course objectives and Outcomes of the course are well defined and clear to faculty and students	66%	24%	6%	4%	0%
3.	Enough prescribed books are available in the library	64%	21%	10%	5%	0%
4.	The course has good balance between theory and application.	59%	33%	8%	2%	0%
5.	The course has made me interested in the subject area.	50%	19%	26%	5%	0%
6.	The course has increased knowledge potential in its application	43%	41%	11%	5%	0%
7.	Book facilities and other amenities like projectors, software etc., are available in the department	48%	25%	20%	3%	4%
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.	58%	41%	1%	0%	0%
9.	I have the freedom to adopt new techniques of teaching such as seminar presentations, group discussions, demonstration and student's participations.	87%	11%	2%	0%	0%
10.	Syllabus contain necessary technical skills for the students to face the industry needs	57%	20%	7%	16%	0%
11.	The electives offered are relevant to the specialization streams and to the technological advancements.	45%	25%	11%	10%	9%
12.	The laboratory experiments enhance the students in understanding the concepts and enable them to relate theory to practice (Experiential learning).	49%	36%	10%	5%	0%
13.	Facilities are provided for teaching and to adopt current trends / research.	59%	35%	5%	1%	0%



Chart Analysis:



Analysis Report:

- In the period 2021-2022, the feedback about UG curriculum was collected from Subject faculties. Their response to various aspects about relevance, content of the curriculum, student placement and employability were analysed.
- It was observed that majority of them are satisfied with 90% of the curriculum. However, they also made valuable suggestions for updating the syllabus to meet the current challenges and to make it more job oriented.
- Many faculties participated in the workshop and faculty development program of their relevant subject.
- However, the need to have industrial experts to handle special sessions on industry-oriented subjects was suggested and the same was organized by the department.
- Moreover, Hands on training for different simulation software has been conducted by the department.

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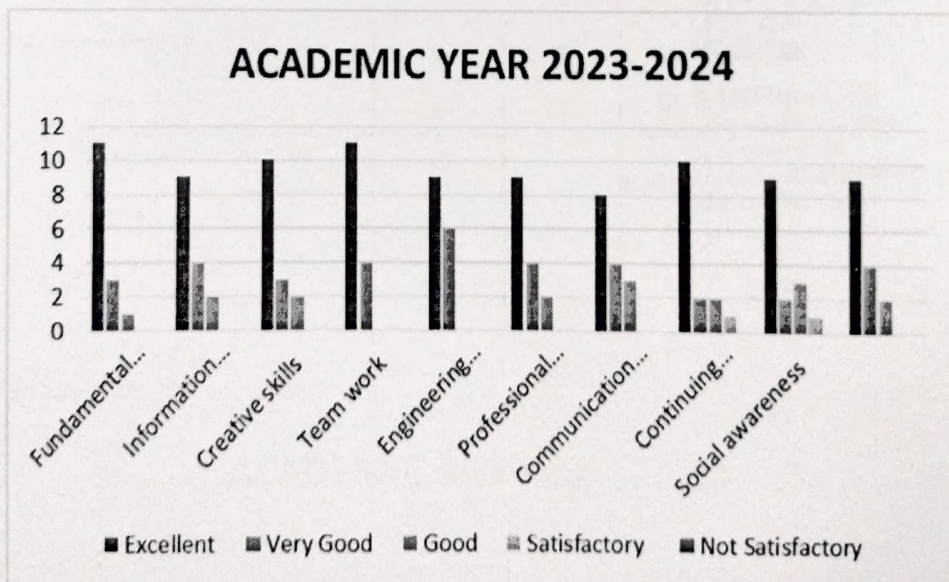
EXIT SURVEY

Academic Year 2023-2024

Survey Analysis:

PARAMETERS	Excellent	Very Good	Good	Satisfactory	Not Satisfactory
Fundamental engineering analysis skill	11	3	1	0	0
Information retrieval skill	9	4	2	0	0
Creative skills	10	3	2	0	0
Team work	11	4	0	0	0
Engineering problem solving skills	9	6	0	0	0
Professional Integrity	9	4	2	0	0
Communication Skills	8	4	3	0	0
Continuing education awareness	10	2	2	1	0
Social awareness	9	2	3	1	0
Professional development	9	4	2	0	0

Chart Analysis:





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Analysis Report:

The Exit Survey is designed to give graduates the opportunity to reflect upon their experience in our institution. This information is used to improve the college experience for future students by identifying strengths in our programs as well as areas that need further development. Most of the students were satisfied with the various aspects of the teaching like coverage of syllabus, preparation for classes, their communication skill, approach to teaching, internal evaluation process, assignments, internship, mentoring, opportunities to learn and grow. The student Mentoring system in the Institute facilitates cognitive, social & emotional growth of the students, providing multiple opportunities to learn and grow. The Mentor does a necessary follow-up with assigned tasks. About 85% of students have expressed satisfaction on the mentoring system adopted in the Institution. Students have been enabled to identify their strengths and weaknesses also they stated that management has been extended all help to enhance their strengths and overcome weaknesses.

Suggestion:

- Hostel facilities could be improved
- Industry sponsored course can be added
- Conduct more employability enhancement programs
- Co-curricular activities


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ALUMNI SURVEY

Academic Year 2023-2024

Feedback Analysis:

The institution believes that the contribution of alumni is essential particularly in the development of the curriculum related activities. The feedback from the alumni reveals that they feel proud to be a part of the institution and are willing to contribute to the development of the institution. Majority of alumni (66.7%) rated the developmental activities rendered by the Institution for their overall Development as highly efficient. Regarding the residential facilities, 84% of them who were in hostel rated that the food and accommodation facilities as highly efficient. It was reported by the 100% of the respondents that they feel that adequate knowledge was gained during their course of study. Of the student teacher relationship, 78% 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. Resources available in the library, quality of infrastructure, and other supporting services provided to students were appreciated by alumni.

Suggestions:

- In addition to this, more industry-specific inputs in the curriculum can further help to bridge the gap between industry and academic institutions.
- Wherever possible compulsory mini projects with the counterpart theoretical subjects should be planned from the first year.
- New courses, software, tools that the industry requires should be regularly updated in the curriculum.

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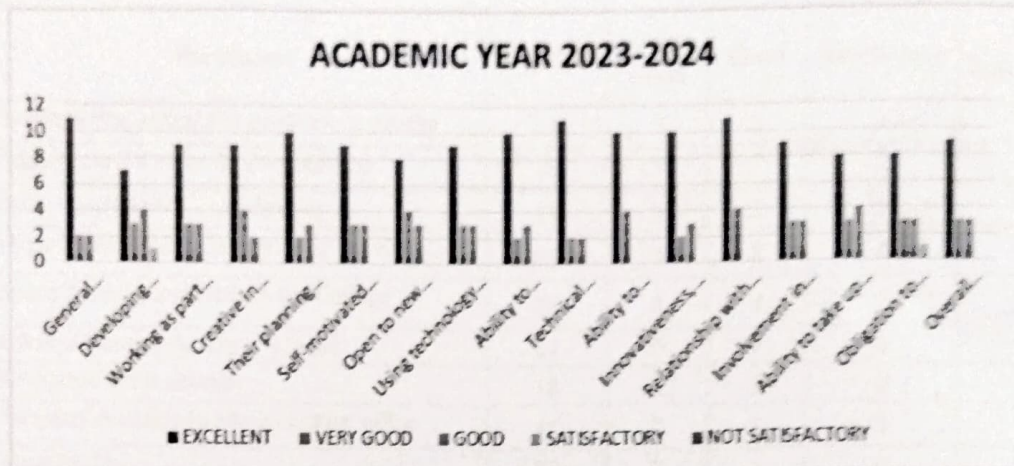
EMPLOYER FEEDBACK

Academic Year 2023-2024

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



Chart Analysis:



Analysis Report:

Employers feedback is obtained from the recruiting agencies with the help of structured questionnaire. They highlighted the importance to improve upon the domain knowledge to meet the emerging societal needs. Based on the feedback received it is summarized that employers show their satisfaction level for the availability of choices of course in the schemes. The prescribed syllabi are relevant for securing a job and enhancing the skills required for them.

Suggestion:

- The curriculum meets the expectations of the industry to an extent, but lot of techniques and detailing need to be updated and the integration of every subject with Design Software will definitely add value to our students.
- Learning of latest techniques are also made possible through hands-on workshop.

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FEEDBACK ANALYSIS OF PARENTS

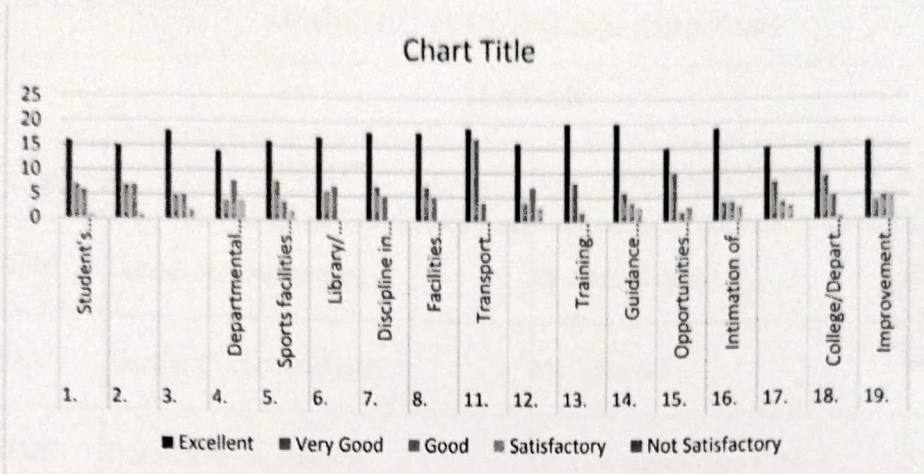
Academic Year 2023-2024

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

Parents have entrusted the future of their children into our hands and thus they play a very important role in the development and enhancement of the quality of this learning experience. Feedback from parents allows the institute to evaluate its service provision and thus cater to providing excellent service towards the students.



Chart Analysis:



Analysis Report:

Feedback obtained from the parents has significant contribution for the progress of any institution. Majority of the parents expressed that the

- Simplicity and fairness of the admission procedure of the Institution is excellent.
- Academic discipline in terms of timely conduct of lectures, practical and other activities is highly appreciated by them.
- Majority of the parents felt that quality of the teaching and training provided at the institution and its contribution to their ward's overall personality development as excellent.
- Parents appreciated the availability and sharing of relevant information on the Institution website.
- Parents reported that transparency of the examination system and effectiveness of continuous evaluation mechanism is excellent.
- Also, majority of them appreciated the career orientation and placement support services offered by the institution.

Thus, the analysis report of the feedback obtained from the parents reveals that they are very much satisfied about the functioning of the programmes and the academic activities offered by the institution.

Suggestions:

- There should be a parent-teacher interaction at the beginning of every semester.
- Parents suggest for a fair balance between Academics and Co-curricular activities.

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FEEDBACK ANALYSIS CONSOLIDATED REPORT

ACADEMIC YEAR 2023-2024 (ODD SEM)

II YEAR			
SUB CODE	SUBJECT	FACULTY NAME	FEEDBACK %
EI1302	Transducer Engineering	Dr. Senthilkumar B	83.75
EE1371	Electric Circuit Analysis	Ms. Meena S	82.37
EI1302	Transducer Engineering	Dr. Gnanaprakasam C.N	81.07
EI1301	Electrical and Electronic Measurements	Dr. Sivakumar R	87.44
EE1372	Analog Electronics	Mr. Hariprasad N	85.98
EE1373	Digital Logic Circuits	Mr. Sankaran.D	82.07
MA1301	Transform and Partial Differential Equations	Dr.S.Anna Duari	95

III YEAR			
SUB CODE	SUBJECT	FACULTY NAME	FEEDBACK %
CS1520	Computer Networks	Dr. Deepa P	82.46
EE1571	Power Electronics	Dr. Gnanaprakasam C.N	91.33
EI1502	Industrial Instrumentation - II	Dr. Sivakumar R	95.83



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III YEAR			
SUB CODE	SUBJECT	FACULTY NAME	FEEDBACK %
EE1572	Microprocessors and Microcontrollers	Mr. Sankaran.D	91.35
EI1501	Biomedical Instrumentation	Dr. R. Kotteeswaran	91
OCE101	Air Pollution and Control	Dr. M. Suresh	92

IV YEAR			
SUB CODE	SUBJECT	FACULTY NAME	FEEDBACK %
EC8093	Digital Image Processing	Dr. Senthilkumar B	77.97
EI8751	Industrial Data Networks	Dr. Deepa P	82.38
EI8092	Thermal Power Plant Instrumentation	Dr. Vijayan V	87.08
EE8691	Embedded Systems	Ms. Meena S	84.33
GE8071	Disaster Management	Dr.M.Suresh	90
OBT751	Analytical Methods and Instrumentation	Dr.R.Kotteeswaran	92

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ACADEMIC YEAR 2023-2024 (EVEN SEM)

II YEAR			
SUB CODE	SUBJECT	FACULTY NAME	FEED BACK %
MA1401	Statistical and Numerical Methods	Dr.J.Nancy Delaila	89
EE1451	Electrical Machines	Dr.B.Senthilkumar	87
EI1401	Industrial Instrumentation -I	Dr.P.Deepa	93
EI1402	Communication Engineering	Mr.G.D.Vignesh	89
EE1471	Control Systems	Dr.R.Kotteeswaran	88
CS1406	Fundamentals of Data Structure in C (Lab Integrated)	Mrs.G.Supraja Dr.R.Elavarasan(Lab)	91

III YEAR			
SUB CODE	SUBJECT	FACULTY NAME	FEED BACK %
EI1601	Industrial Internet of Things	Dr. Vijayan V	88.54
EE1672-P	Embedded Systems (Lab Integrated)	Mr.D.Sankaran	92.48
EI1623	Digital Image Processing	Ms. Meena S	93.87
EI1602	Process Control	Dr. Sivakumar R	93.67
EE1671	Digital Signal Processing	Dr.S.Rajeshkannan	90.12
DS1302	Object Oriented Programming (Lab Integrated)	Mrs.Hepsi Ajibah AS Mrs.J.Gnanasoundhar am (Lab)	87



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IV YEAR			
SUB CODE	SUBJECT	FACULTY NAME	FEED BACK %
GE8076	Professional Ethics In Engineering	(a) Dr. Senthilkumar B	89.22
GE8076	Professional Ethics In Engineering	(b) Dr. Gnanaprakasamc.N	85.43
GE8076	Professional Ethics In Engineering	(c) Mr. Sankaran.D	86.29
EI8079	Robotics And Automation	(a) Dr. Sivakumar R	82.05
EI8079	Robotics And Automation	(b) Dr. Deepa P	66.71

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