



# St. JOSEPH'S COLLEGE OF ENGINEERING

(St. Joseph's Group of Institutions)

Chennai -600 119

## DEPARTMENT OF BIOTECHNOLOGY

### Stakeholder's Feedback on Curriculum and Actions Taken



#### ACADEMIC YEAR 2021-2022

Stake holders	Feed back	Action Taken by the Institute
Students	Need more insight on current technologies in the field of Biotechnology.	Department specific training and programs are conducted and students are insisted to take online courses in various platforms like Coursera, Udemey etc
Staffs	Students should aware about globally ongoing research domain in the field of Biotechnology	Number of webinars, carrier development seminars have been conducted from the department
Parents	More research knowledge and current techniques in Biotechnology to be imparted to their wards	A series of technical lectures under the banner of Bio-Talk lectures had been organized to bridge the gap in the curriculum and industry
Alumni	The importance of higher studies and research opportunities to be emphasized for the course pursuing students.	Special Webinar had been arranged to share the opportunities and importance of Higher studies, using Form ABHS and through Elite Alumni of Biotech department
Employers	Along with technical core knowledge students need to have basic exposure on Programming Skills	Online training on programing skills such as C, C++, basics Java programing during II and III years towards increasing placement opportunities are provided through skill rack and AMCAT platforms

  
HOD

Head of the Department  
Department of Biotechnology  
St. Joseph's College of Engineering  
Chennai - 600 119. India

  
PRINCIPAL

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St. JOSEPH'S COLLEGE OF ENGINEERING  
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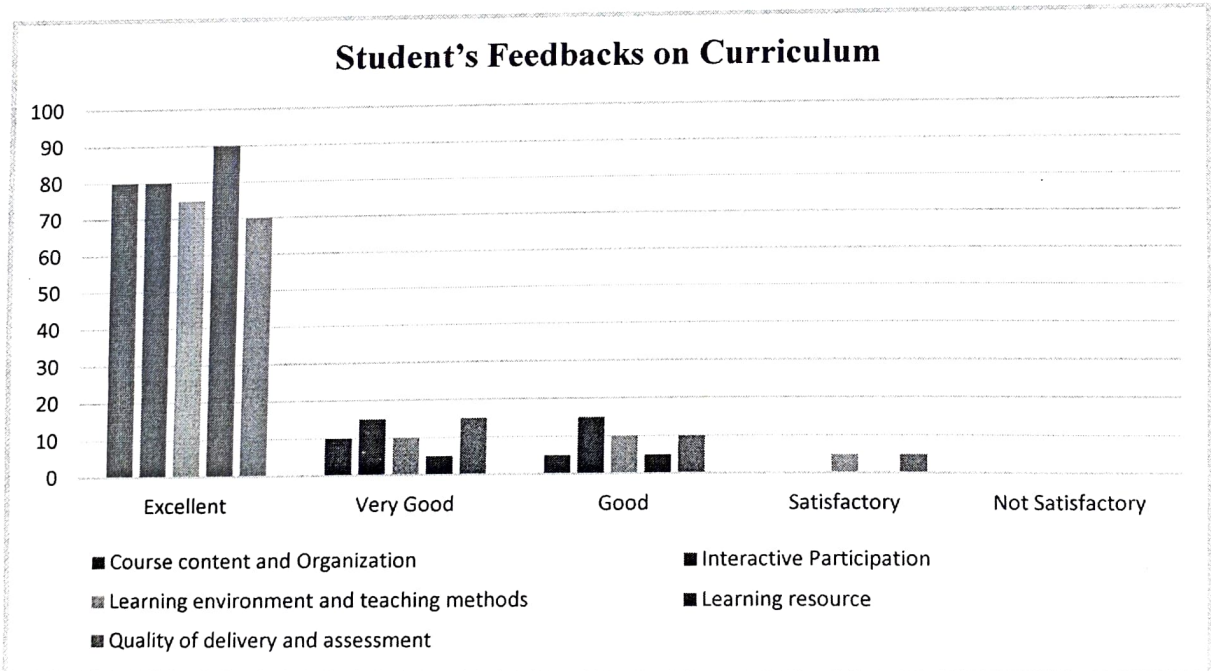
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**Consolidated Report of  
 Student's Feedbacks on Curriculum**

**ACADEMIC YEAR 2021-2022**

CORE QUESTIONS	Excellent	Very Good	Good	Satisfactory	Not Satisfactory
Course content and Organization	80	10	5	0	0
Interactive Participation	80	15	15	0	0
Learning environment and teaching methods	75	10	10	5	0
Learning resource	90	5	5	0	0
Quality of delivery and assessment	70	15	10	5	0





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### DEPARTMENT OF BIOTECHNOLOGY

## Curriculum Feedback Report by Students



### Students' Feedback

The college has obtained feedback on curriculum from students through questionnaire which contains the following major aspects such as Course content & Organization, Interactive participation, Learning environment & teaching methods, Learning resource and Quality of delivery and assessment. Total students' strength was 172. Few students gave their feedback on curriculum for the academic year 2021-2022. 80% of the student's 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 75% of the students agreed that they are equipped with necessary teaching methods required for their programme. It is observed that 90% of the students agreed that the provision for learning resource in library was adequate and appropriate with their respective field of specialization areas. The feedback revealed that 70% of them are strongly agreed about the quality of delivery and the internal assessment for the specified programme. Some students are suggested that it would be helpful if the certification course with hands on training can be included as a part of the curriculum.

### Feedback Analysis report

- Course content and organization, learning resources were agreed to be excellent by many students
- Hybrid mode of classes and online assessment through google platform was found to be comfortable for the students.

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Department of Biotechnology  
St. Joseph's College of Engineering  
Chennai - 600 119, India





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## DEPARTMENT OF BIOTECHNOLOGY

### Teachers Feedback on Curriculum - Analysis

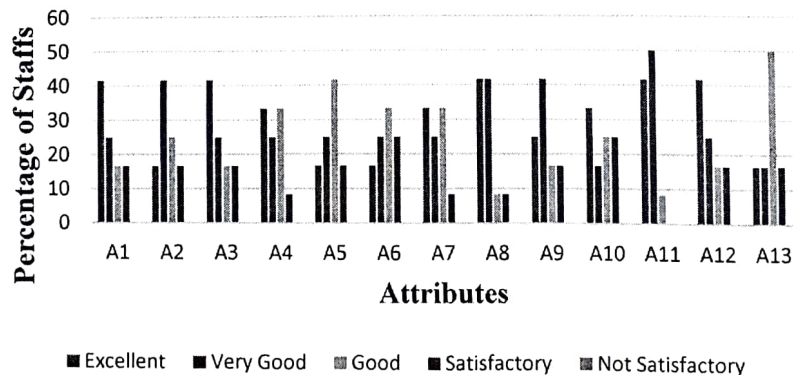


Academic Year: 2021-2022

Grade: 5-Excellent, 4-Very Good, 3- Good, 2- Satisfactory, 1- Not satisfactory

S. No	ATTRIBUTES	Percentage %				
		5	4	3	2	1
1.	Curriculum is based on the needs of the stakeholders	41.6	25	16.6	16.6	0
2.	Course objectives and Outcomes of the course are well defined and clear to faculty and students	16.6	41.6	25	16.6	0
3.	Sufficient number of prescribed books are available in the library	41.6	25	16.6	16.6	0
4.	The course has good balance between theory and application.	33.3	25	33.3	8.33	0
5.	The course has made me interested in the subject area.	16.6	25	41.6	16.6	0
6.	The course has increased knowledge potential in its application	16.6	25	33.3	25	0
7.	Book facilities and other amenities like projectors, softwares etc., are available in the department	33.3	25	33.3	8.33	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.	41.6	41.6	8.33	8.33	0
9.	I have the freedom to adopt new techniques of teaching such as seminar presentations, group discussions, demonstration and student's participations.	25	41.6	16.6	16.6	0
10.	Syllabus contain necessary technical skills for the students to face the industry needs	33.3	16.6	25	25	0
11.	The electives offered are relevant to the specialization streams and to the technological advancements.	41.6	50	8.33	0	0
12.	The laboratory experiments enhance the students in understanding the concepts and enable them to relate theory to practice (Experiential learning).	41.6	25	16.6	16.6	0
13.	Facilities are provided for teaching and to adopt current trends / research.	16.6	16.6	50	16.6	0

### Teachers Feedback on Curriculum





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**Teachers Feedback on Curriculum –Report**



### **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, guest lectures, value added courses and student's workshops are organized 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.
- Enrichment of the students' knowledge was found satisfactory
- More webinars programs was hosted for the students in emerging areas in hybrid mode
- The suggestions given by them related to specific subjects were noted for further action.

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**Student Exit Survey Analysis**



**ACADEMIC YEAR: 2021-2022**

**Batch 2018-2022**

S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	1	1	2	1	0
2.	Usage of modern techniques in biotech processes	1	1	3	1	0
3.	Project management, Commercialization & social application	1	2	2	1	0
4.	Professional codes & Bioethical practices	1	2	2	1	0
5.	Skills of communication and Team work	1	2	2	1	0
6.	Knowledge updating and self learning ability towards sustained employability	2	1	2	1	0
Total		7	9	13	6	0

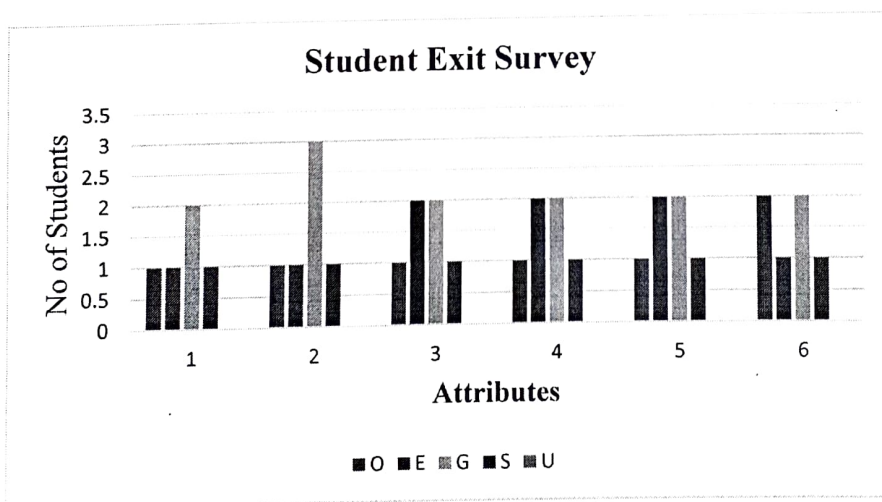
O - Outstanding

E – Excellent

G - Good

S - Satisfactory

U - Unable to judge



**Feed Back Summary**

- Knowledge updating and self-learning ability towards sustained employability seems to be excellent
- Project management, Commercialization & social application of the Course are satisfactory

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Head of the Department  
 Department of Biotechnology  
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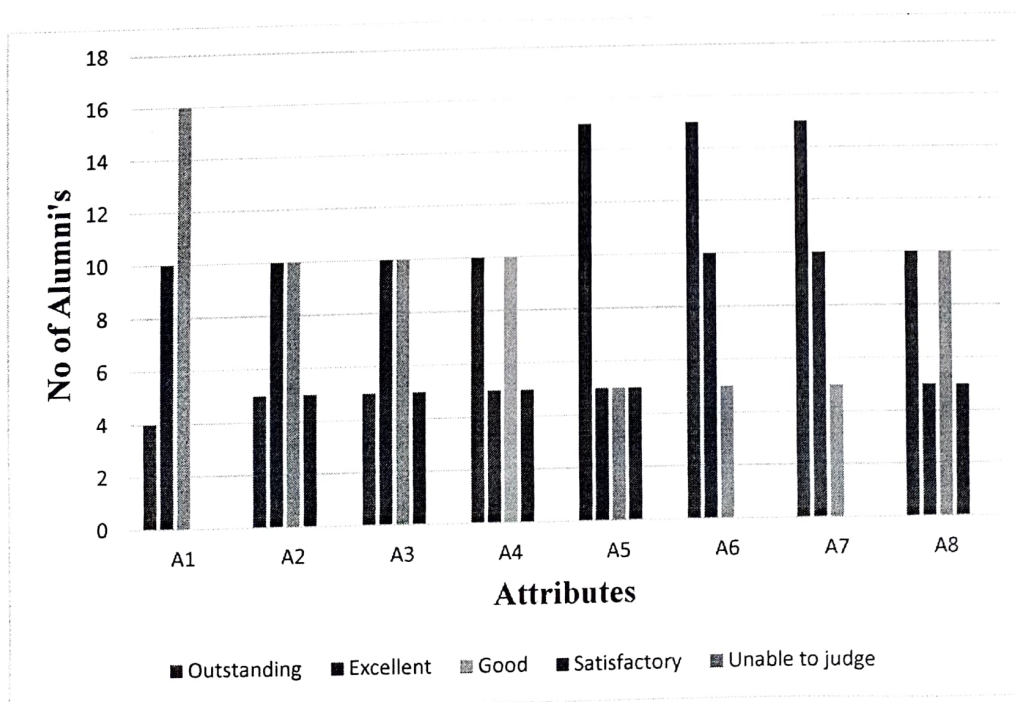
## DEPARTMENT OF BIOTECHNOLOGY

### Alumni Feedback Analysis



Academic Year: 2021-2022

S.No.	Attributes	Outstanding	Excellent	Good	Satisfactory	Unable to judge
1.	Basic sciences and Engineering fundamentals	4	10	16	0	0
2.	Usage of modern techniques in biotech processes	5	10	10	5	0
3.	Project management, Commercialization & social application	5	10	10	5	0
4.	Professional codes & Bioethical practices	10	5	10	5	0
5.	Skills of Communication and Team work	15	5	5	5	0
6.	Effectiveness of Placement enhancement programs	15	10	5	0	0
7.	Effectiveness of Higher studies guidance	15	10	5	0	0
8.	Ability to meet the current Industrial / Research challenges	10	5	10	5	0
<b>Total</b>		79	65	66	25	0





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DEPARTMENT OF BIOTECHNOLOGY

## Alumni Feedback Report



**Academic Year: 2021-2022**

Alumni feedback was obtained from nearly 30 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. The feedback from the alumni reveals that majority 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 **outstanding and excellent** for the attributes provided and **few members** have rated **good and satisfactory** for the attributes provided. The overall strength and weakness of the department from the alumni are summarized below.

### **Strength**

1. Well qualified faculty members.
2. Well planned academic schedule.
3. Placement training programs are conducted well

### **Scope for improvement**

The various avenues for importance of higher studies and research opportunities to be more emphasized to the students.

### **Feedback analysis report**

#### **Positive Feed back**

- From the alumni feedback analysis report, it is evident that majority 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 for this course.

#### **Suggestions**

- More number of special webinars on research in various core field can be arranged
- Importance of getting on campus placement can be insisted in core industry

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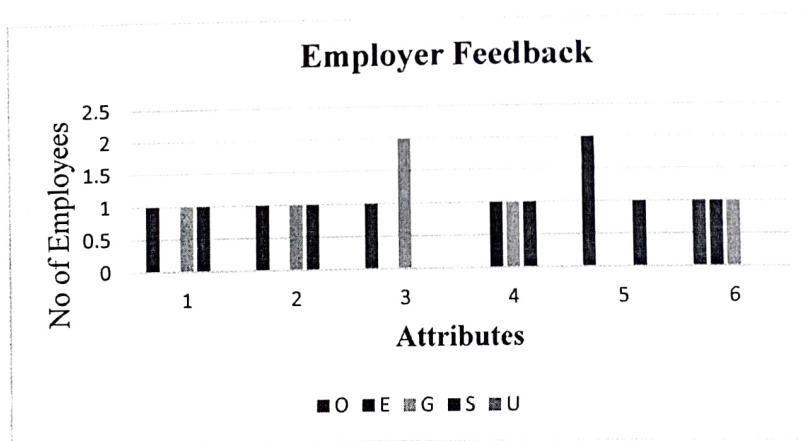


**Employer Feedback Analysis Report**

**ACADEMIC YEAR: 2021-2022**


S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	1	0	1	1	0
2.	Usage of modern techniques in biotech processes	1	0	1	1	0
3.	Project management, Commercialization & social application	1	0	2	0	0
4.	Professional codes & Bioethical practices	0	1	1	1	0
5.	Skills of communication and Team work	2	0	0	1	0
6.	Knowledge updating and self-learning ability towards sustained employability	1	1	1	0	0

O - Outstanding      E -Excellent      G - Good      S - Satisfactory      U - Unable to judge



**FEEDBACK**

- Along with core knowledge, students need to develop self learning ability in basic knowledge on Programming Skills to match the requirements of Bioinformatics related industry.

  
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 Department of Biotechnology  
 St. Joseph's College of Engineering  
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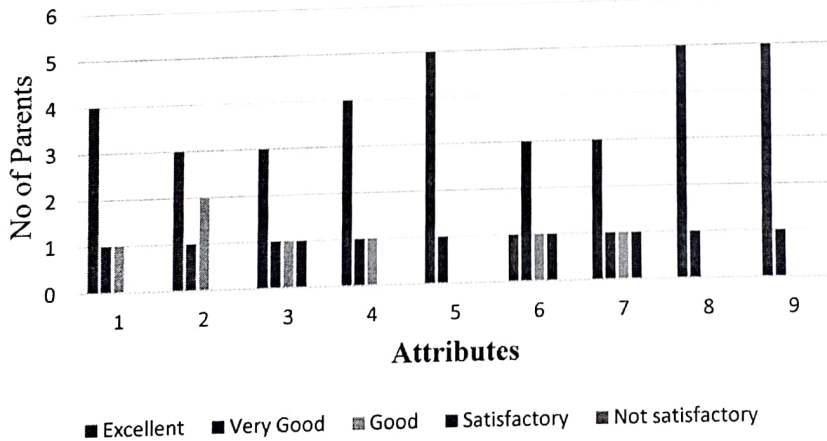


**Parents Feedback Analysis Report**

**ACADEMIC YEAR 2021-2022**

S.No	Attributes	Excellent	Very Good	Good	Satisfactory	Not satisfactory
1.	Student's counselling and guidance in college	4	1	1	0	0
2.	Departmental Extra/Co-curricular activities	3	1	2	0	0
3.	Library/ Reading facility available	3	1	1	1	0
4.	Discipline in the college	4	1	1	0	0
5.	Mess facility	5	1	0	0	0
6.	Transport Facility	1	3	1	1	0
7.	Industrial exposure given by the department	3	1	1	1	0
8.	Training provided to appear for placement	5	1	0	0	0
9.	Guidance provided for higher studies	5	1	0	0	0
<b>Total</b>		<b>24</b>	<b>11</b>	<b>8</b>	<b>3</b>	<b>0</b>

**Parents Feedback**



**Feedbacks**

- Student's counselling and guidance in the department are extremely good
- Mess facility are extraordinary in the college
- Training provided to appear for placement seems to be excellent
- Classroom teaching and laboratory demonstration and practice, are extremely useful to the students.

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Department of Biotechnology  
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## DEPARTMENT OF BIOTECHNOLOGY

### Stakeholders Feedback Report on Academic Practices



Academic Year: 2021-2022

Stake holder	Feed back	Action Taken by the Institute
Students	The number of placement training session can be scheduled 4 hr per day	The schedule has been revised has half day morning and afternoon session on alternative days
staffs	Interaction of Alumni with the current course pursuing students could be made as a regular practice	Alumni students data are collected and it shared to students based on their need and domain of higher studies
Parents	The hostel students could be given special class in college premises	The special class has been conducted the previous day of each IAE exams between 3-5 PM
Alumni	Students should be insisted to undergo internships and attend more number of online training courses	More number of online courses and webinar had been conducted for UG and PG students to know the current research trends and opportunities and contacts details of internship providers are shared with students
Employer	Non circuit branch students should be exposed to basic programing practices in placement training	Training sessions had been arranged for students in computer lab to solve the need of basic programing ability

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Department of Biotechnology  
St. Joseph's College of Engineering  
Chennai - 600 119. India

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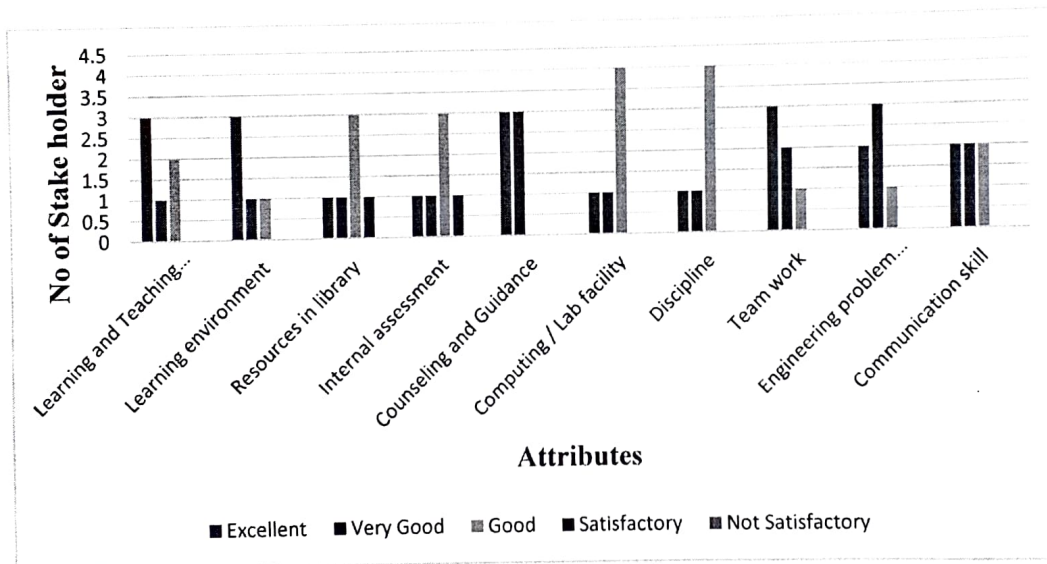
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**Stakeholders Evaluation Report on Institutional practices**


**Academic Year: 2021-2022**

S. No	Parameters (P)	Excellent	Very Good	Good	Satisfactory	Not Satisfactory
1.	Learning and Teaching methods	3	1	2	0	0
2.	Learning environment	3	1	1	0	0
3.	Resources in library	1	1	3	1	0
4.	Internal assessment	1	1	3	0	0
5.	Counseling and Guidance	3	3	0	0	0
6.	Computing / Lab facility	1	1	4	0	0
7.	Discipline	1	1	4	0	0
8.	Team work	3	2	1	0	0
9.	Engineering problem solving	2	3	1	0	0
10.	Communication skill	2	2	2	0	0



**Feedback**

- Stakeholders reported that hybrid learning and teaching methodology, Counselling, Guidance and placement support activities are excellent
- Online Seminar and conference were arranged from department to enrich the knowledge of the students
- The Overall Academic practices are found to be good in college

  
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**Students Feedback on Staffs**



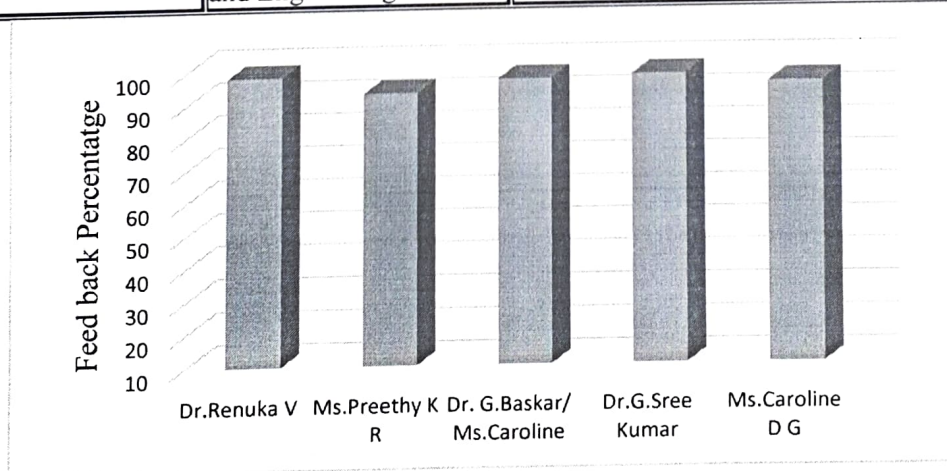
**ACADEMIC YEAR 2021-2022 - EVEN SEMESTER**


**I YEAR / II SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
BT1206	Cell Biology	Ms. Yuwvaranni S	95.43

**II YEAR / IV SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
BT8401	Fluid Mechanics and Heat Transfer Operation	Dr.Renuka V	98.08
BT8402	Molecular Biology	Ms.Preethy K R	92.90
BT8403	Enzyme Technology and Biotransformation	Dr. G.Baskar/ Ms.Caroline	96.82
BT8404	Bioprocess Principles	Dr.G.Sree Kumar	97.95
GE8291	Environmental Science and Engineering	Ms.Caroline D G	95.39



  
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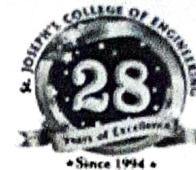
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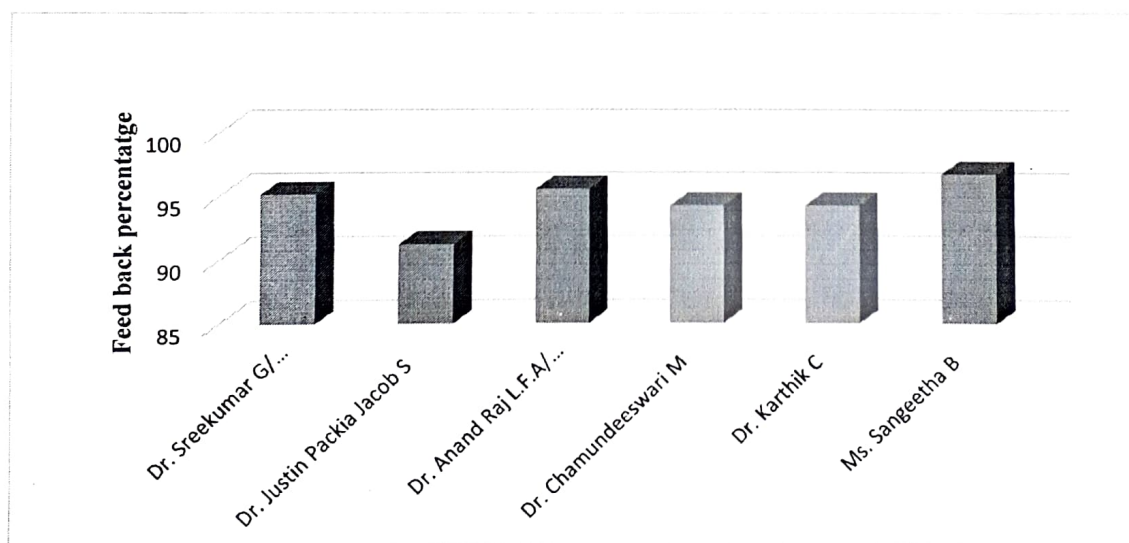
## Students Feedback on Staffs



ACADEMIC YEAR 2021-2022 SEMESTER

IIIYEAR / VI SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT8005	Animal Biotechnology	Dr. Sreekumar G/ Ms.Yuwvaranni.S	95.14
BT8651	Bioinformatics	Dr. Justin Packia Jacob S	91.21
BT8014	Lifestyle diseases	Dr. Anand Raj L.F.A/ Ms.Preethy K R	95.53
BT8601	Genetic Engineering	Dr. Chamundeeswari M	94.22
BT8009	Biopharmaceutical Technology	Dr. Karthik C	94.24
BT8691	Applied Chemical Reaction Engineering	Ms. Sangeetha B	96.72



  
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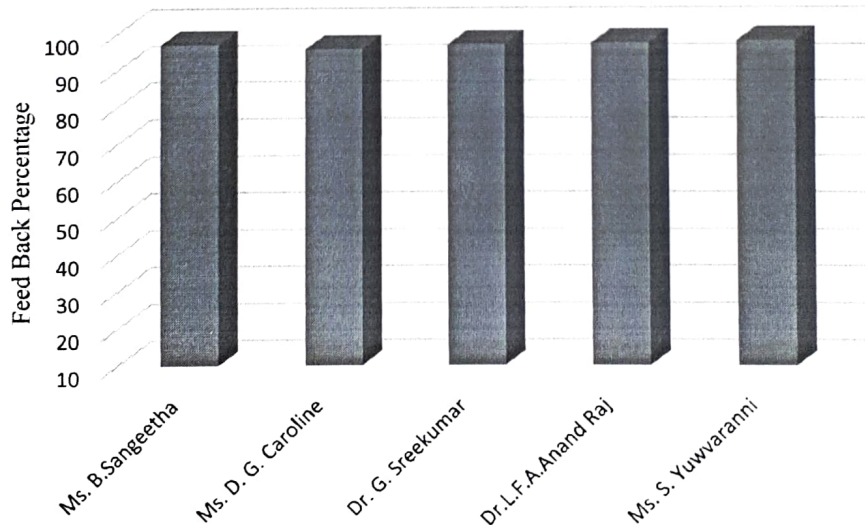
## Students Feedback on Staffs



ACADEMIC YEAR 2021-2022 - ODD SEMESTER

II YEAR / III SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT8301	Stoichiometry and Fluid Mechanics	Ms. B.Sangeetha	97.00
BT8302	Applied Thermodynamics for Biotechnologists	Ms. D. G. Caroline	95.65
BT8303	Basic Industrial Biotechnology	Dr. G. Sreekumar	96.85
BT8304	Bioorganic Chemistry	Dr.L.F.A.Anand Raj	97.20
BT8305	Cell Biology	Ms. S. Yuwvaranni	97.82



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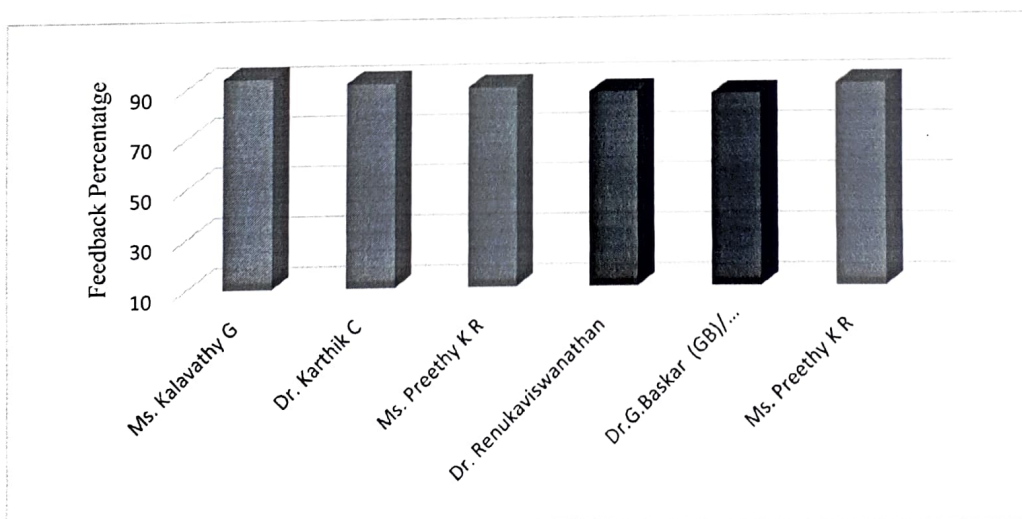
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**Students Feedback on Staffs**



**ACADEMIC YEAR 2021-2022 - ODD SEMESTER**

**III YEAR / V SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
BT8501	Mass Transfer Operations	Ms. Kalavathy G	93.78
BT8502	Analytical Methods and Instrumentation	Dr. Karthik C	91.55
BT8503	Protein Engineering	Ms. Preethy K R	89.53
BT8591	Bioprocess Engineering	Dr. Renukaviswanathan	87.26
BT8003	Principles of Food Processing	Dr.G.Baskar (GB)/ Dr.G.Kalavathy	86.07
OAI551	Environment and Agriculture	Ms. Preethy K R	90.00



  
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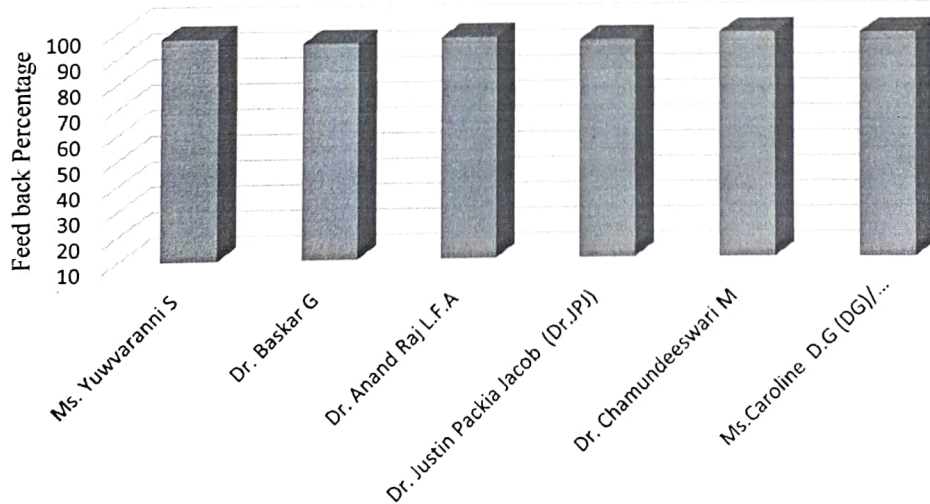
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**Students Feedback on Staffs**




**ACADEMIC YEAR 2021-2022 - ODD SEMESTER**

**IV YEAR / VII SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
GE8077	Total Quality Management	Ms. Yuwvaranni S	96.96
BT8751	Downstream Processing	Dr. Baskar G	94.88
BT8791	Immunology	Dr. Anand Raj L.F.A	97.00
BT8018	Plant Biotechnology	Dr. Justin Packia Jacob (Dr.JPJ)	95.71
BT8023	Tissue Engineering	Dr. Chamundeewari M	98.19
OBM752	Hospital Management	Ms.Caroline D.G (DG)/ Dr.M.Chamundeewari (MC) / Dr.RenukaV (RV)	97.85



  
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