



## 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 2023-2024

Stake holders	Feed back	Action Taken by the Institute
Students	Provide knowledge in specific domain in Biotechnology	Students are insisted to take online courses in various platforms like Coursera, Udemy to upskill in specific domain
Staffs	More exposure towards software application in Biotechnology could be encouraged.	Value added course has been conducted in the field of Bioinformatics (Advanced Drug designing) and students were asked to take up NPTEL courses related to the field.
Parents	Internship training could be insisted	More number of students are allowed to do internship in project centers. This would fill the requirement to bridge the curricular gap.
Alumni	Students should be guided towards advanced studies in diverse fields allied to Biotechnology	Special Guest lectures and webinars had been conducted using the source of distinguished Alumni's to share the opportunities and importance of Higher studies.
Employers	Students could be advised to upgrade their professional skills by pursuing relevant certification courses.	Students have been insisted to undergo certification course as a part of the regular academics

**HOD**

Dr. L. F. A. Anand Raj, M.Sc., M.Tech., Ph.D.

Head of the Department  
Department of Biotechnology  
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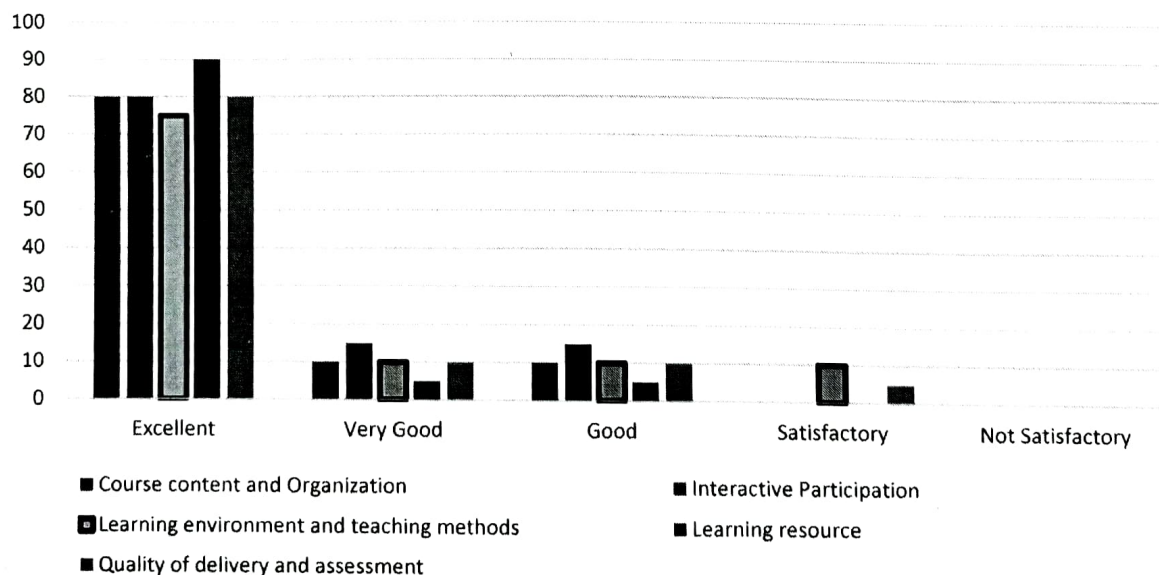


**Consolidated Report of  
 Student's Feedbacks on Curriculum**

**ACADEMIC YEAR 2023-2024**

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

**Student's Feedbacks on Curriculum**





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## **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 173. Few students gave their feedback on curriculum for the academic year 2023-2024. 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 80% 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 80% of students
- Learning AI intervention in Biotechnology could be emphasized

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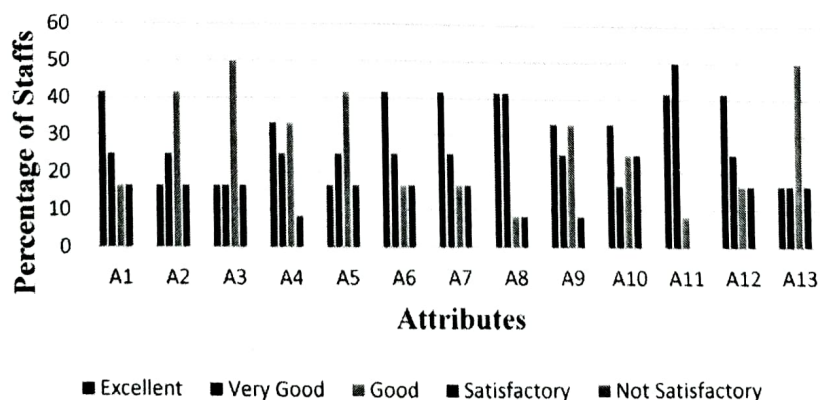
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**Teachers Feedback on Curriculum - Analysis**



**Academic Year: 2023-2024**

S. No	ATTRIBUTES	Grade: 5-Excellent, 4-Very Good, 3- Good, 2- Satisfactory, 1- Not satisfactory				
		Percentage %				
		5	4	3	2	1
1.	Curriculum is based on the needs of the stake holders	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	25	41.6	16.6	0
3.	Sufficient number of prescribed books are available in the library	16.6	16.6	50	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	41.6	25	16.6	16.6	0
7.	Book facilities and other amenities like projectors, softwares etc., are available in the department	41.6	25	16.6	16.6	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.	33.3	25	33.3	8.33	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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### DEPARTMENT OF BIOTECHNOLOGY

## Teachers Feedback on Curriculum –Report



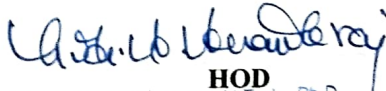
### TEACHERS FEEDBACK ON CURRICULUM

- 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 current curriculum (R-2021) and suggestions were given curriculum revision for fore coming regulation (R-2025)
- More exposure towards basics of AI application in Biotechnology could be encouraged.
- The suggestions given by them related to specific subjects were noted for further action.

  
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**Student Exit Survey Analysis**



**ACADEMIC YEAR: 2023-2024**

**Batch 2020-2024**

S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	1	2	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	2	1	2	1	0
6.	Knowledge updating and self learning ability towards sustained employability	2	1	2	1	0
<b>Total</b>		<b>8</b>	<b>9</b>	<b>13</b>	<b>6</b>	<b>0</b>

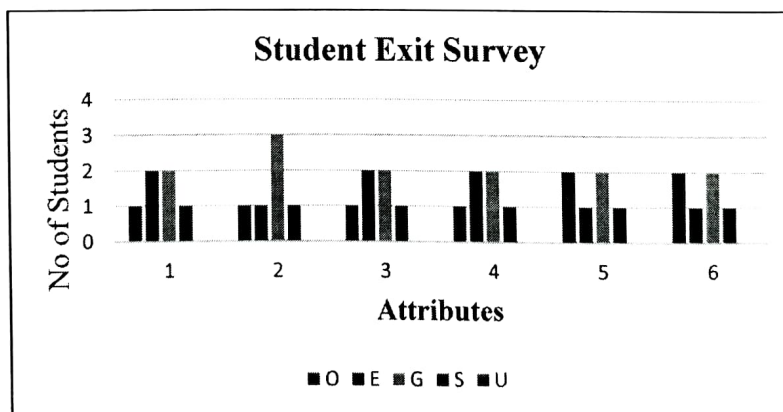
O - Outstanding

E - Excellent

G - Good

S - Satisfactory

U - Unable to judge



**Feed Back Summary**

- Advanced communication and teamwork proficiencies activities could be encouraged.
- Project management, Commercialization & social application area could be improved

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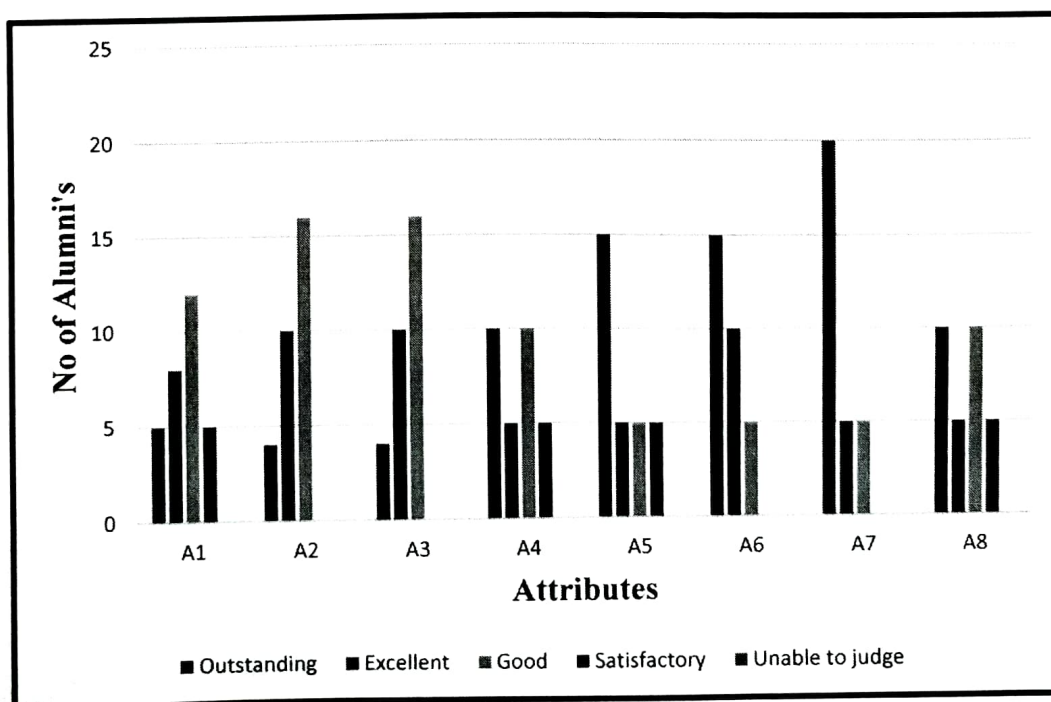
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**Alumni Feedback Analysis**

**Academic Year: 2023-2024**

S.No.	Attributes	Outstanding	Excellent	Good	Satisfactory	Unable to judge
1.	Basic sciences and Engineering fundamentals	5	8	12	5	0
2.	Usage of modern techniques in biotech processes	4	10	16	0	0
3.	Project management, Commercialization & social application	4	10	16	0	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	20	5	5	0	0
8.	Ability to meet the current Industrial / Research challenges	10	5	10	5	0
<b>Total</b>		<b>83</b>	<b>58</b>	<b>79</b>	<b>20</b>	<b>0</b>





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## Alumni Feedback Report



### Academic Year: 2023-2024

Alumni feedback was obtained from nearly 30 alumni for the academic year 2023-2024. 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

- Highlight the significance of advanced education and research prospects to students via alumni engagement. **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.

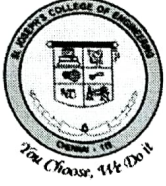
#### Suggestions

- Students should be guided towards advanced studies in diverse fields allied to biotechnology.
- A greater number of specialized guest lectures on research in core disciplines can be arranged.
- The significance of securing on-campus placements in core industries should be highlighted.

  
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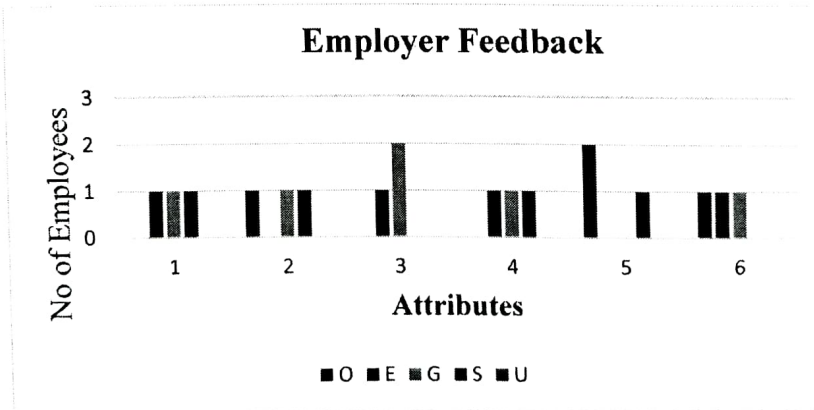


**Employer Feedback Analysis Report**

**ACADEMIC YEAR: 2023-2024**

S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	0	1	1	1	0
2.	Usage of modern techniques in biotech processes	1	0	1	1	0
3.	Project management, Commercialization & social application	0	1	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**

- Students could be provided with placement support and training tailored to students' interests in core and software domains, aiming for higher salary packages.
- Students could be advised to upgrade their professional skills by pursuing relevant certification courses.

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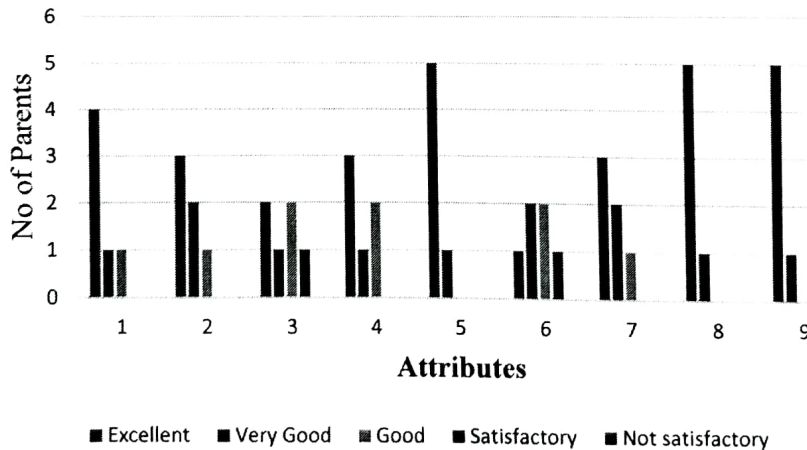
### Parents Feedback Analysis Report



ACADEMIC YEAR 2023-2024

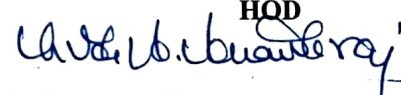
S.No	Attributes	Excellent	Very Good	Good	Satisfactory	Not satisfactory
1.	Student's counselling and guidance in college	5	1	0	0	0
2.	Departmental Extra/Co-curricular activities	4	1	1	0	0
3.	Library/ Reading facility available	2	1	2	1	0
4.	Discipline in the college	3	1	2	0	0
5.	Mess facility	5	1	0	0	0
6.	Transport Facility	1	2	2	1	0
7.	Industrial exposure given by the department	4	1	1	0	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>34</b>	<b>10</b>	<b>8</b>	<b>2</b>	<b>0</b>

### Parents Feedback



### Feedbacks

- The department provides exemplary student counselling and guidance services.
- The college's mess facilities are outstanding.
- The placement training offered is of exceptional quality.
- A greater number of experimental projects and internship should be assigned to students.

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**DEPARTMENT OF BIOTECHNOLOGY**  
**Stakeholders Feedback Report on Academic Practices**



**Academic Year: 2023-2024**

<b>Stake holder</b>	<b>Feed back</b>	<b>Action Taken by the Institute</b>
<b>Students</b>	Alumni guidance can provide valuable insights, leading to enhanced career trajectories.	Alumni's had been invited to share their experience and importance of higher studies and placements through Alumni Connect Programs and Mock interview sessions
<b>staffs</b>	Training should be prioritized to equip students with the necessary skills for thriving in both the core and software industries.	A skill-based categorization of students was conducted, and the "HOPE" and "PEP" training program was designed to assist those aspiring for higher compensation packages
<b>Parents</b>	Number of internal assessments can be reduced	The Assessment pattern has been changed to three model exams
<b>Alumni</b>	Students should be encouraged to complete mini-projects to strengthen their project work skills.	The academic schedule has been revised to provide opportunities for student to carry out their internships and mini-projects.
<b>Employer</b>	A supplementary focus on programming skills could enhance the employability of Biotechnology students.	Placement support training has been arranged with more focus on programing skills along with core based skill sets.

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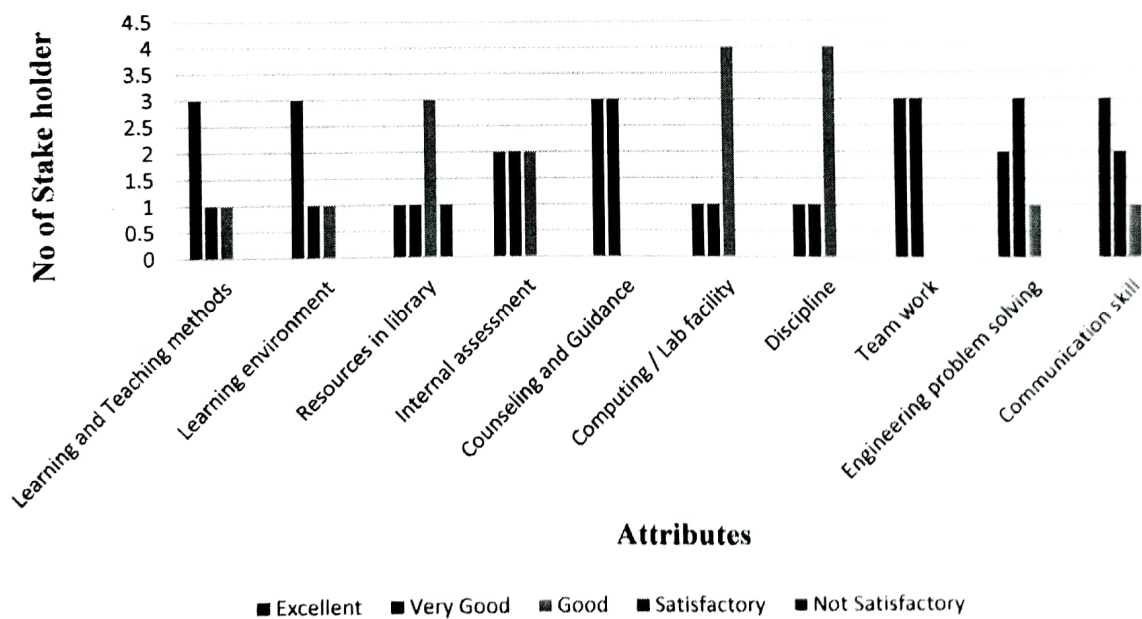


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**Stakeholders Evaluation Report on Institutional practices**



**Academic Year: 2023-2024**

S. No	Parameters (P)	Excellent	Very Good	Good	Satisfactory	Not Satisfactory
1.	Learning and Teaching methods	3	1	1	0	0
2.	Learning environment	3	1	1	0	0
3.	Resources in library	1	1	3	1	0
4.	Internal assessment	2	2	2	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	3	0	0	0
9.	Engineering problem solving	2	3	1	0	0
10.	Communication skill	3	2	1	0	0



**Feedback**

- Stakeholders are glad that college had supported the learning and teaching methodology
- Counselling, Guidance and placement support activities are excellent from college side
- Discipline maintenance in the college seems to be liked by parents, Employer and Alumni
- The Overall Academic practices are found to be good in college and the suggestions given are noted for further improvement

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## DEPARTMENT OF BIOTECHNOLOGY

### Students Feedback on Staffs

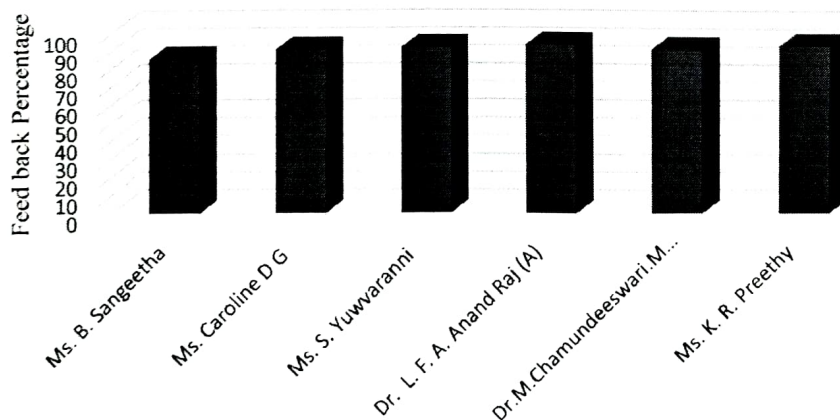


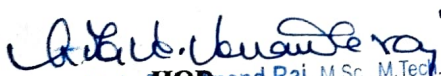
#### ACADEMIC YEAR 2023-2024- ODD SEMESTER

#### II YEAR / III SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
MA1301	Transforms and Partial Diff. Equations	Mr. K. Suresh	91.51
BT1301	Process Calculations	Ms. B. Sangeetha	85.47
BT1302	Basic Industrial Biotechnology	Ms. Caroline D G	90.70
BT1303	Microbiology	Ms. S. Yuwvaranni	91.62
BT1304	Biochemistry-I	Dr. L. F. A. Anand Raj (A) Dr. M. Chamundeswari (B)	93.21
BT1305	Molecular Biology	Ms. K. R. Preethy	93.27

#### 2023-2024 -Sem 3



  
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**Students Feedback on Staffs**

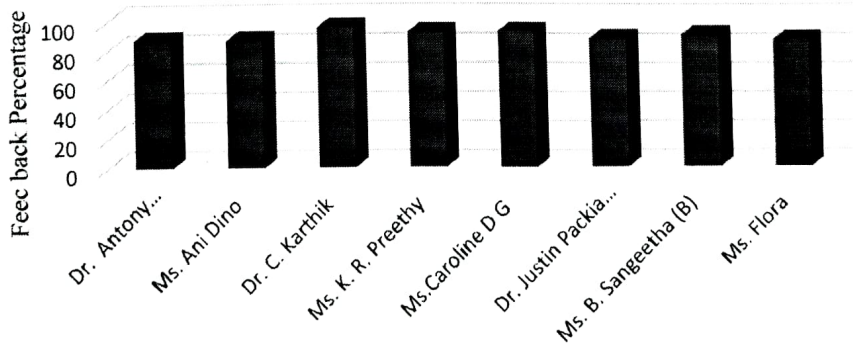


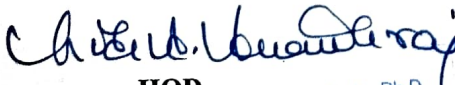
**ACADEMIC YEAR 2023-2024 - ODD SEMESTER**

**III YEAR / V SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
BT1501	Mass Transfer Operations	Dr. Antony Catherine Flora L	87.33
BT1502	Bioprocess Engineering	Ms. Ani Dino	87.03
BT1503	Analytical Methods & Instrumentation	Dr. C. Karthik	95.93
BT1504	Protein Engineering	Ms. K. R. Preethy Ms. Caroline D G	92.35 92.71
BT1002	Professional Elective – I: Principles of Food Processing	Dr. Justin Packia Jacob (A) Ms. B. Sangeetha (B)	88.04 90.66
OCH103	Open Elective – I: Environment and Agriculture	Ms. Flora	87.54

**2023-2024 Sem 5**



  
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Students Feedback on Staffs

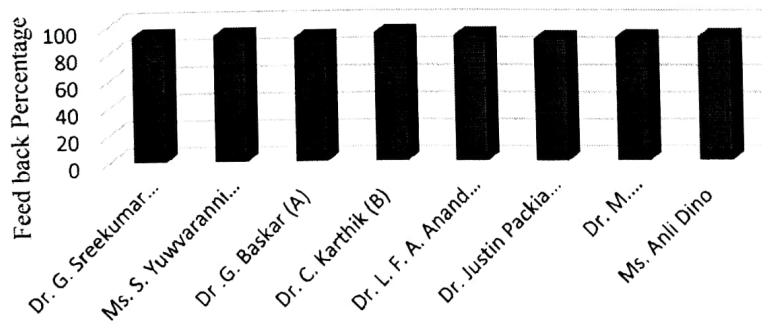


ACADEMIC YEAR 2023-2024 - ODD SEMESTER

IV YEAR / VII SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
GE8077	Total Quality Management	Dr. G. Sreekumar (A) Ms. S. Yuwvaranni (B)	92.77 93.00
BT8751	Downstream Processing	Dr. G. Baskar (A) Dr. C. Karthik (B)	90.94 94.19
BT8791	Immunology	Dr. L. F. A. Anand Raj	91.95
BT8018	Professional Elective – V: Plant Biotechnology	Dr. Justin Packia Jacob	89.57
BT8023	Professional Elective –VI: Tissue Engineering	Dr. M. Chamundeeswari	90.68
OBM752	Open Elective II: Hospital Management	Ms. Anli Dino	91.26

2023-2024 Sem 7



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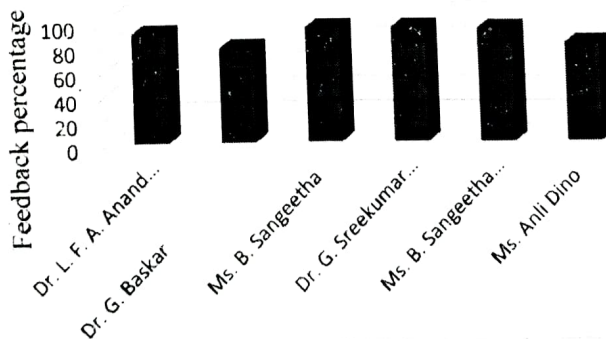



ACADEMIC YEAR 2023-2024 – EVEN SEMESTER

II YEAR / IV SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
MA1452	Applied Probability and Statistics	Mr. S.M. Balaji	87.35
BT1401	Biochemistry-II	Dr. L. F. A. Anand Raj	89.48
BT1402	Enzyme Engineering	Dr. G. Baskar	77.16
BT1403	Fluid Mechanics and Heat Transfer Operations	Ms. B. Sangeetha	93.16
BT1404	Bioprocess Principles	Dr. G. Sreekumar/Ms. B. Sangeetha	92.89 92.31
BT1405	Applied Thermodynamics for Biotechnologists	Ms. Anli Dino	80.76

## 2023-2024- SEM 4



  
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# St. JOSEPH'S COLLEGE OF ENGINEERING

(St. Joseph's Group of Institutions)

Chennai -600 119

## DEPARTMENT OF BIOTECHNOLOGY

### Students Feedback on Staffs

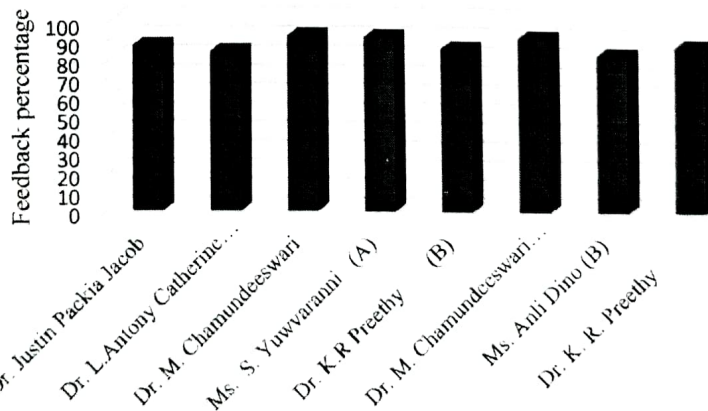


#### ACADEMIC YEAR 2023-2024 – EVEN SEMESTER

#### III YEAR / VI SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT1601	Computational Biology	Dr. Justin Packia Jacob	87.50
BT1602	Applied Chemical Reaction Engineering	Dr. L.Antony Catherine Flora	84.38
BT1603	Genetic Engineering	Dr. M. Chamundeeswari	92.58
BT1005	Animal Biotechnology	Ms. S. Yuwvaranni (A) Dr. K.R Preethy (B)	92.01 86.08
BT1010	Biopharmaceutical Technology	Dr. M. Chamundeeswari (A) Ms. Anli Dino (B)	92.17 83.39
BT1016	Lifestyle Diseases	Dr. K. R. Preethy	88.32

#### 2023-2024 SEM 6



HOD

Dr. L. F. A. Anand Raj. M.Sc., M.Tech., Ph.D.  
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Principal

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