



# 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 2020-2021

Stake holders	Feed back	Action Taken by the Institute
Students	Exposure on Pharmaceuticals Manufacturing process and Drug designing could be provided	A special Value Added Course on advancements in Drug designing was Provided to students
Staffs	Students should aware about globally ongoing research domain in the field of Biotechnology	Number of webinars, carrier development seminars have been conducted. Students were motivated to undergo various online courses (Coursera and Internship opportunities in the field of Biotechnology)
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 more emphasized to the current students.	Special Webinar had been arranged to share the opportunities and importance of Higher studies, using Elite Alumni of Biotech department
Employers	Along with core knowledge students need to have good 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

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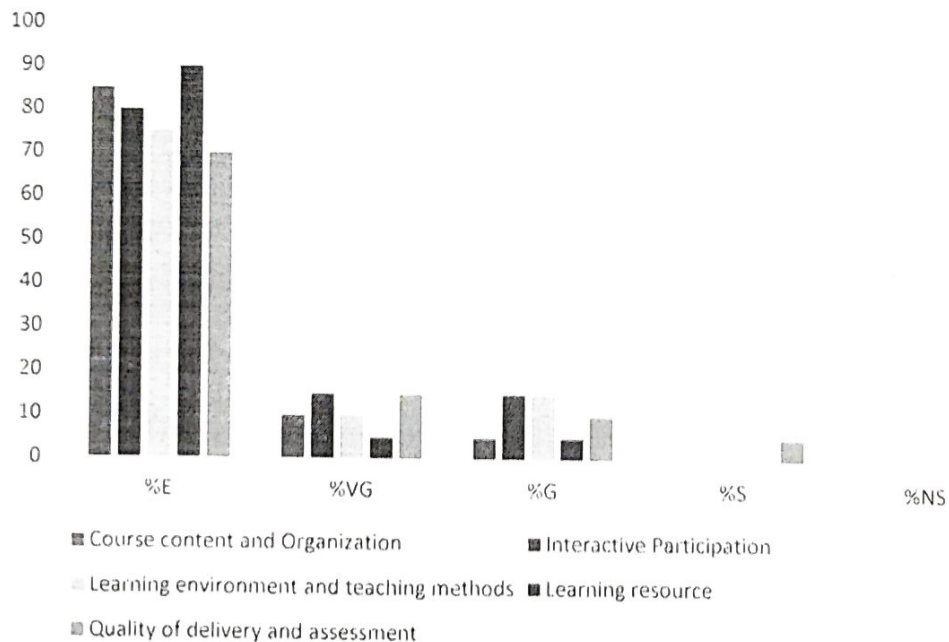
### DEPARTMENT OF BIOTECHNOLOGY

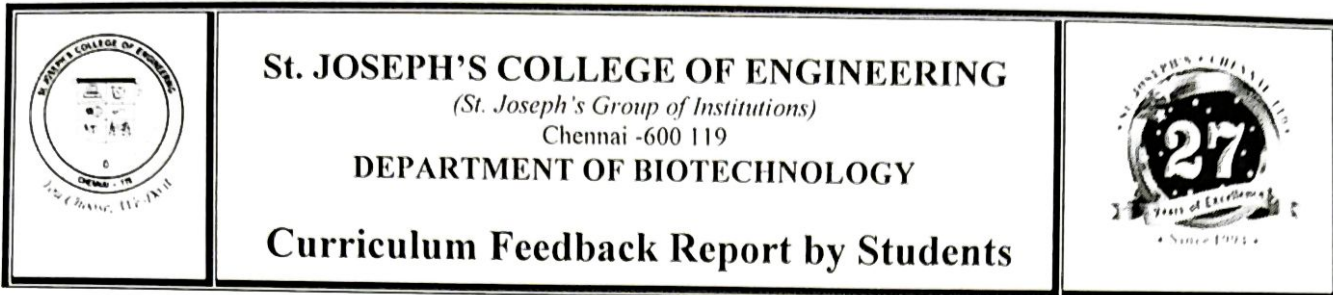
## Consolidated Report of Student's Feedbacks on Curriculum



### ACADEMIC YEAR 2020-2021

CORE QUESTIONS	Excellent	Very Good	Good	Satisfactory	Not Satisfactory
Course content and Organization	85	10	5	0	0
Interactive Participation	80	15	15	0	0
Learning environment and teaching methods	75	10	15	0	0
Learning resource	90	5	5	0	0
Quality of delivery and assessment	70	15	10	5	0





### 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 175. Few students gave their feedback on curriculum for the academic year 2020-2021. 85% 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 80% 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
- Orientation towards industrial based learning could be engrossed and online assessment through MCQs pattern were found to be difficult among majority of students



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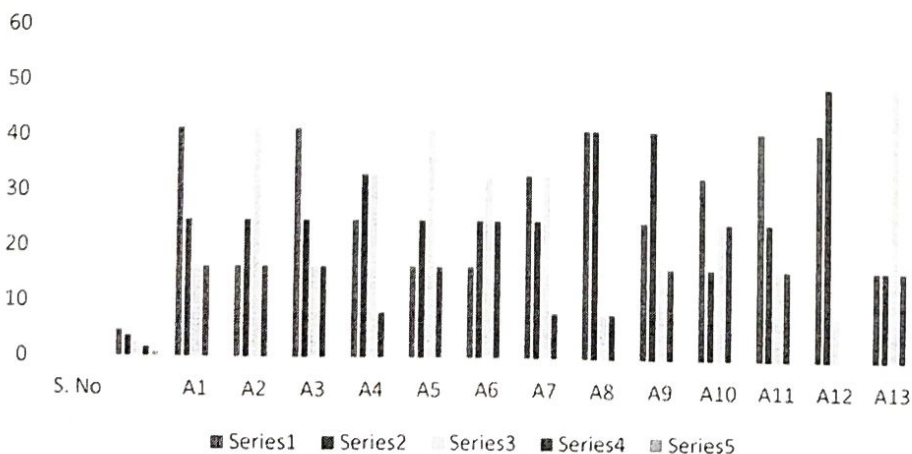
### Teachers Feedback on Curriculum - Analysis



Academic Year: 2020-2021

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	25	41.6	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.	25	33.3	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	25	16.6	16.6	0
12.	The laboratory experiments enhance the students in understanding the concepts and enable them to relate theory to practice (Experiential learning).	41.6	50	8.33	0	0
13.	Facilities are provided for teaching and to adopt current trends / research.	16.6	16.6	50	16.6	0





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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 curriculum.
- Enrichment of the students' knowledge was found satisfactory through online courses enrollment, during the pandemic lockdown period
- More webinars programs could be conducted for the students in emerging areas.
- The suggestions given by them related to specific subjects were noted for further action.

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## DEPARTMENT OF BIOTECHNOLOGY

### Student Exit Survey Analysis



ACADEMIC YEAR: 2020-2021

Batch 2017-2021

S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	1	1	3	0	0
2.	Usage of modern techniques in biotech processes	1	1	4	0	0
3.	Project management, Commercialization & social application	1	2	3	0	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	16	2	0

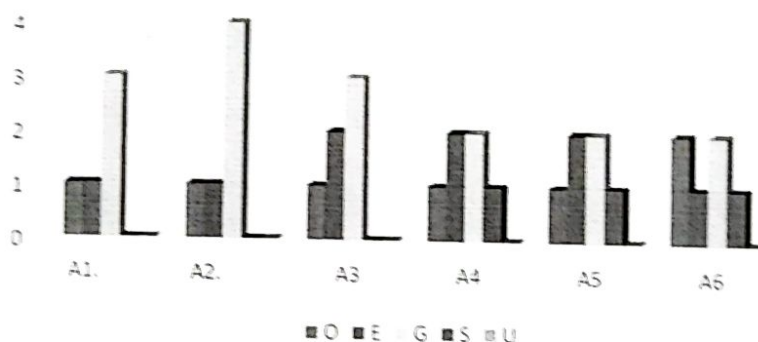
O - Outstanding

E - Excellent

G - Good

S - Satisfactory

U - Unable to judge



#### Feed Back Summary

- Knowledge updating and self-learning ability towards sustained employability seems to excellent
- Project management, Commercialization & social application of the Course are satisfactory
- Usage of Modern Techniques in Biotech process are to be improved by the department

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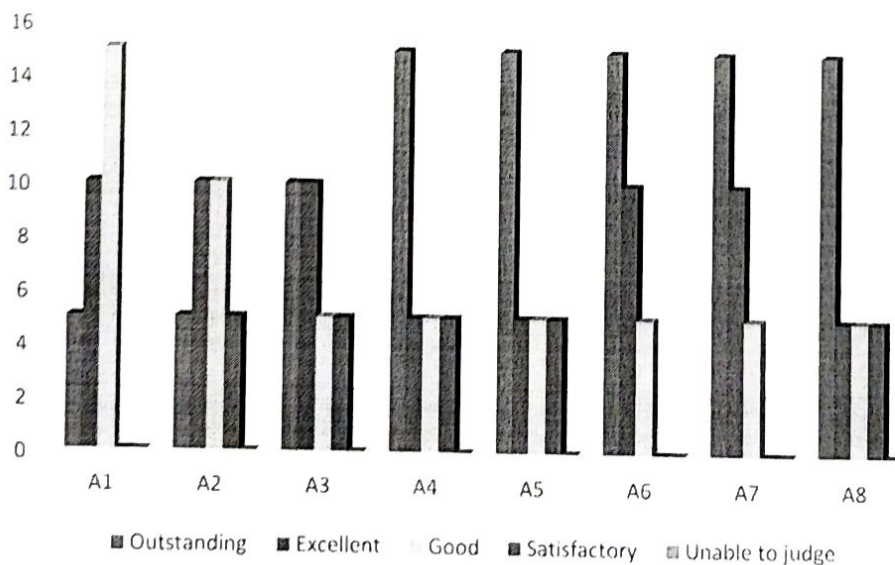
DEPARTMENT OF BIOTECHNOLOGY

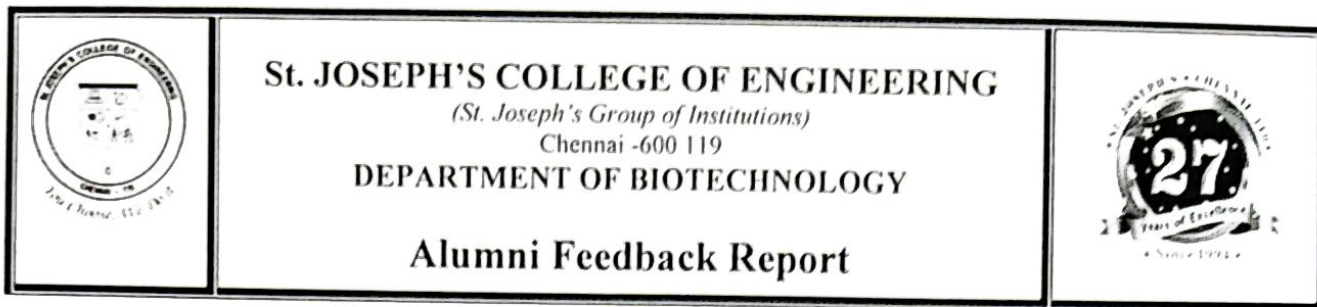
## Alumni Feedback Analysis



Academic Year: 2020-2021

S.No.	Attributes	Outstanding	Excellent	Good	Satisfactory	Unable to judge
1.	Basic sciences and Engineering fundamentals	5	10	15	0	0
2.	Usage of modern techniques in biotech processes	5	10	10	5	0
3.	Project management, Commercialization & social application	10	10	5	5	0
4.	Professional codes & Bioethical practices	15	5	5	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	15	5	5	5	0
<b>Total</b>		95	65	55	25	0





Academic Year: 2020-2021

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

- 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.
- Special webinars on research various avenue and higher studies opportunities are planned to be arranged

  
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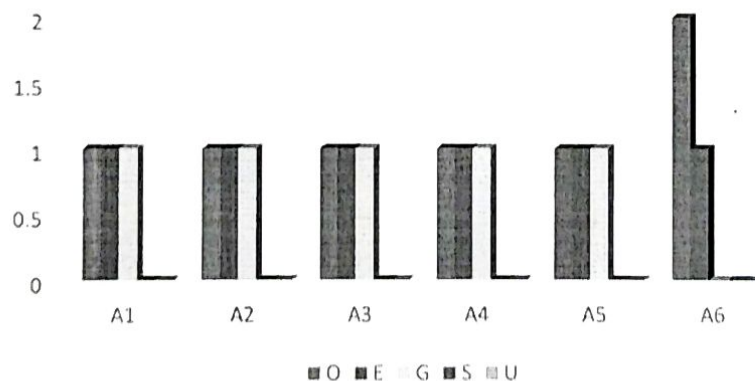


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ACADEMIC YEAR: 2020-2021


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

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



**FEEDBACK**

- Along with core knowledge students need to have good exposure on Programming Skills

  
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## DEPARTMENT OF BIOTECHNOLOGY

### Parents Feedback Analysis Report



ACADEMIC YEAR 2020-2021

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	5	1	0	0	0
3.	Library/ Reading facility available	3	1	2	0	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	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>11</b>	<b>8</b>	<b>1</b>	<b>0</b>





### 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
- In the current pandemic lockdown period practical exposure on lab sessions need to be balanced

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**Academic Year: 2020-2021**

Stake holder	Feed back	Action Taken by the Institute
<b>Students</b>	To cater the need during online teaching and learning, E-books for the subjects are needed to be shared	More number of E-books for every subjects had been uploaded in students portals, respective Google classroom and through e-mail communication
<b>staffs</b>	Students found difficult in adopting the exam pattern changes and for answer paper submission methods	Common online platform (Google Meet), Posting MCQ type exams (Google Forms) Submission of Answer Papers (Google Classroom) The above methods are adopted uniformly by all the departments
<b>Parents</b>	More exposure on Practical aspects to be kept during on line lab session	Staffs had captured the real time practical demo for each experiment and the video had been shared during the online lab session. The same video also been shared with individual students for repeated learning.
<b>Alumni</b>	Students should undergo more number of online training courses and virtual webinars during this pandemic lockdown period	More number of online courses options and webinar had been conducted for UG and PG students to know the current research trends and opportunities.
<b>Employer</b>	Students should be aware in core knowledge with online tools and platform for new normal working strategy	Training sessions had been conducted to understand the usage of online tools and virtual classroom utilization etc by the staff members. For Placement support practices, online based Mock technical interviews were also been conducted through online platform

  
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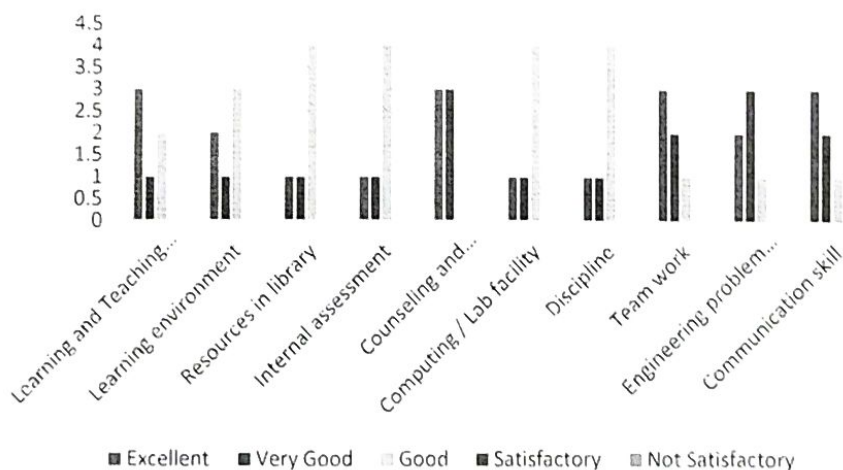
### DEPARTMENT OF BIOTECHNOLOGY

## Stakeholders Evaluation Report on Institutional practices



### Academic Year: 2020-2021

S. No	Parameters (P)	Excellent	Very Good	Good	Satisfactory	Not Satisfactory
1.	Learning and Teaching methods	3	1	2	0	0
2.	Learning environment	2	1	3	0	0
3.	Resources in library	1	1	4	0	0
4.	Internal assessment	1	1	4	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	3	2	1	0	0



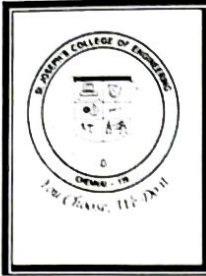
### Feedback

- Stakeholders reported that online learning and teaching methodology, Counselling and Guidance and placement support activities are excellent during the pandemic lockdown period

  
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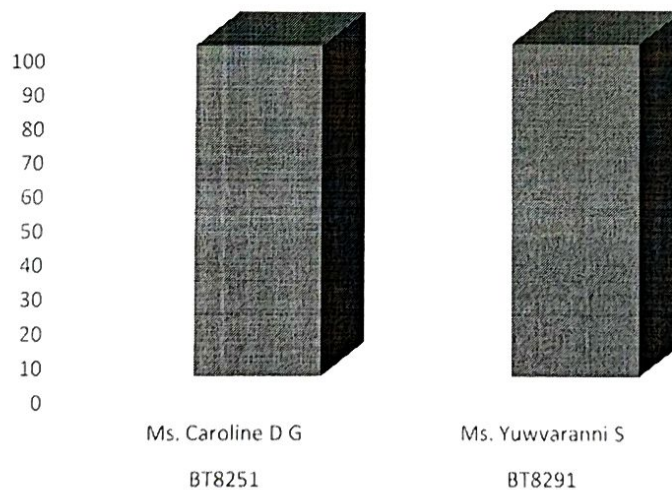
### Students Feedback on Staffs



## ACADEMIC YEAR 2020-2021 - EVEN SEMESTER

### I YEAR / II SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT8251	Biochemistry	Ms. Caroline D G	96.89
BT8291	Microbiology	Ms. Yuwvaranni S	97.77



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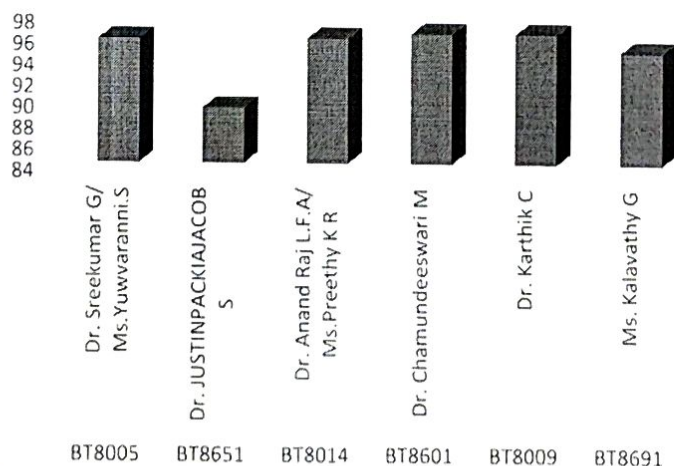
### Students Feedback on Staffs



#### ACADEMIC YEAR 2020-2021 - EVEN SEMESTER

#### IIIYEAR / VI SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT8005	Animal Biotechnology	Dr. Sreekumar G/ Ms.Yuwvaranni.S	95.72
BT8651	Bioinformatics	Dr. JUSTINPACKIAJACOB S	89.22
BT8014	Lifestyle diseases	Dr. Anand Raj L.F.A/ Ms.Preethy K R	95.80
BT8601	Genetic Engineering	Dr. Chamundeeswari M	96.28
BT8009	Biopharmaceutical Technology	Dr. Karthik C	96.32
BT8691	Applied Chemical Reaction Engineering	Ms. Kalavathy G	94.65





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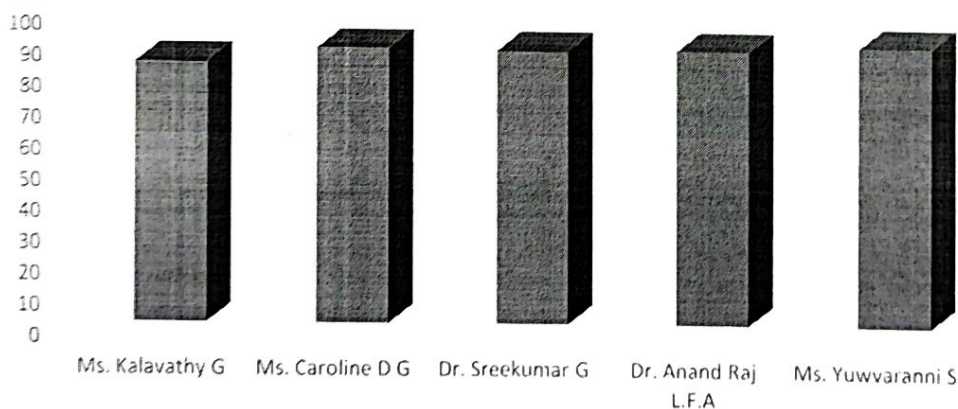



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**ACADEMIC YEAR 2020-2021 - ODD SEMESTER**



**II YEAR / III SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
BT8301	Stoichiometry and Fluid Mechanics	Ms. G.Kalavathy	83.47
BT8302	Applied Thermodynamics for Biotechnologists	Ms. D. G. Caroline	88.08
BT8303	Basic Industrial Biotechnology	Dr. G. Sreekumar	87.63
BT8304	Bioorganic Chemistry	Dr.L.F.A.Anand Raj	88.08
BT8305	Cell Biology	Ms. S. Yuwvaranni	89.73



  
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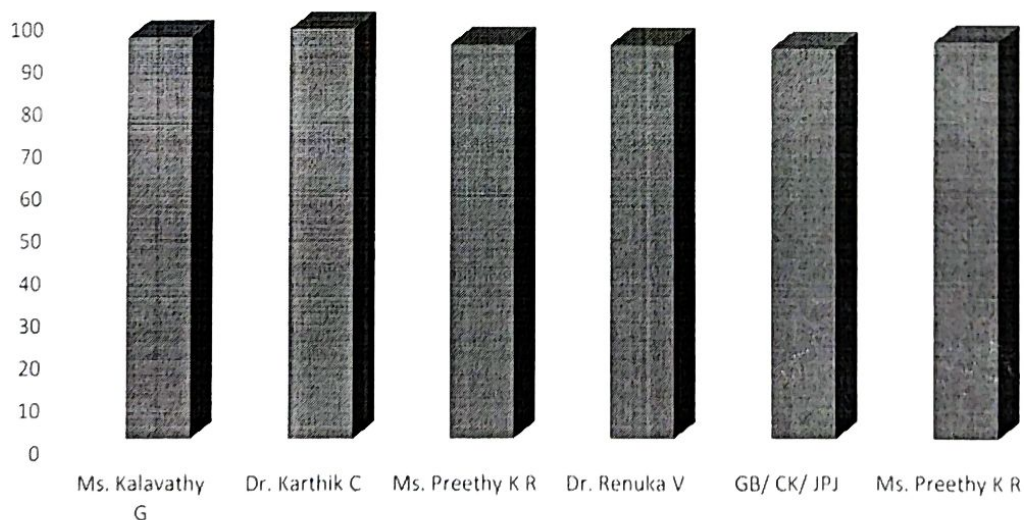
  
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**ACADEMIC YEAR 2020-2021 - ODD SEMESTER**

**III YEAR / V SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
BT8501	Mass Transfer Operations	Ms. Kalavathy G	94.86
BT8502	Analytical Methods and Instrumentation	Dr. Karthik C	96.73
BT8503	Protein Engineering	Ms. Preethy K R	93.16
BT8591	Bioprocess Engineering	Dr. Renukaviswanathan	92.98
BT8003	Principles of Food Processing	Dr.G.Baskar (GB)/ Dr.C.Karthik (CK)/ Dr.Justin Packia Jacob (JPJ)	92.27
OAI551	Environment and Agriculture	Ms. Preethy K R	93.85





  
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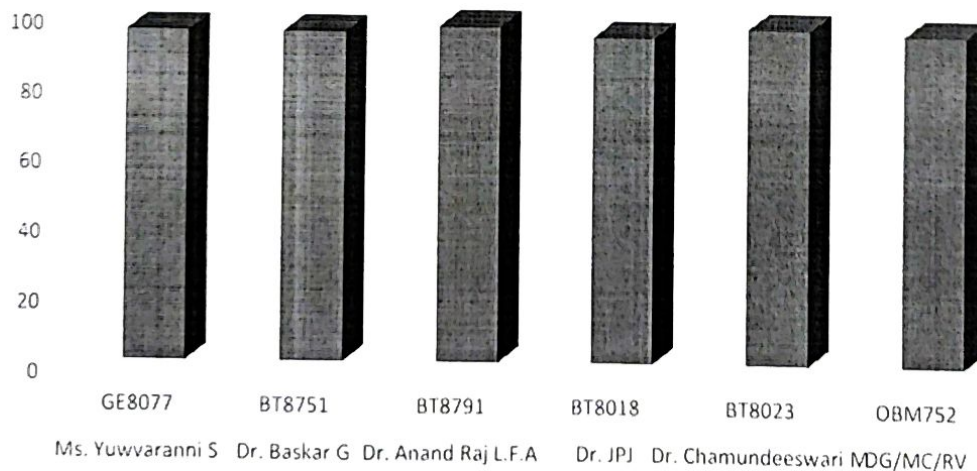


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**ACADEMIC YEAR 2020-2021 - ODD SEMESTER**

**IV YEAR / VII SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
GE8077	Total Quality Management	Ms. Yuwvaranni S	94.90
BT8751	Downstream Processing	Dr. Baskar G	94.79
BT8791	Immunology	Dr. Anand Raj L.F.A	96.68
BT8018	Plant Biotechnology	Dr. Justin Packia Jacob (Dr.JPJ)	94.02
BT8023	Tissue Engineering	Dr. Chamundeeswari M	97.05
OBM752	Hospital Management	Ms.Caroline D.G (DG)/ Dr.M.Chamundeeswari (MC) / Dr.RenukaV (RV)	95.74



  
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