

**DEPARTMENT OF BIOTECHNOLOGY**  
**ACADEMIC YEAR 2024-2025**

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

Stake holders	Feedback	Action Taken by the Institute
Students	More knowledge and skill development in specific domains of Biotechnology is required.	Students are encouraged to enroll in online courses offered through platforms such as SWAYAM, Coursera, and UdeMy to enhance their expertise in domain-specific areas.
Staffs	Greater exposure to software applications related to Biotechnology should be provided.	A value-added course "Advancements in Drug Designing" has been conducted, and students have been encouraged to take relevant NPTEL courses to strengthen software proficiency in the field.
Parents	Internship training should be emphasized for better industry readiness.	Internship has been made a mandatory component of the curriculum to bridge the gap between theoretical learning and industry expectations.
Alumni	Students should be guided towards pursuing advanced studies in diverse fields allied to Biotechnology.	Special guest lectures and webinars have been organized with distinguished alumni to create awareness about higher education opportunities and their importance.
Employers	Students should enhance their professional skills through relevant certification courses.	Students are encouraged to undertake certification courses as a part of their regular academic progression to improve professional competence.

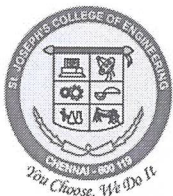
*Dr. L. F. A. Anand Raj*

HOD

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*[Signature]*

PRINCIPAL

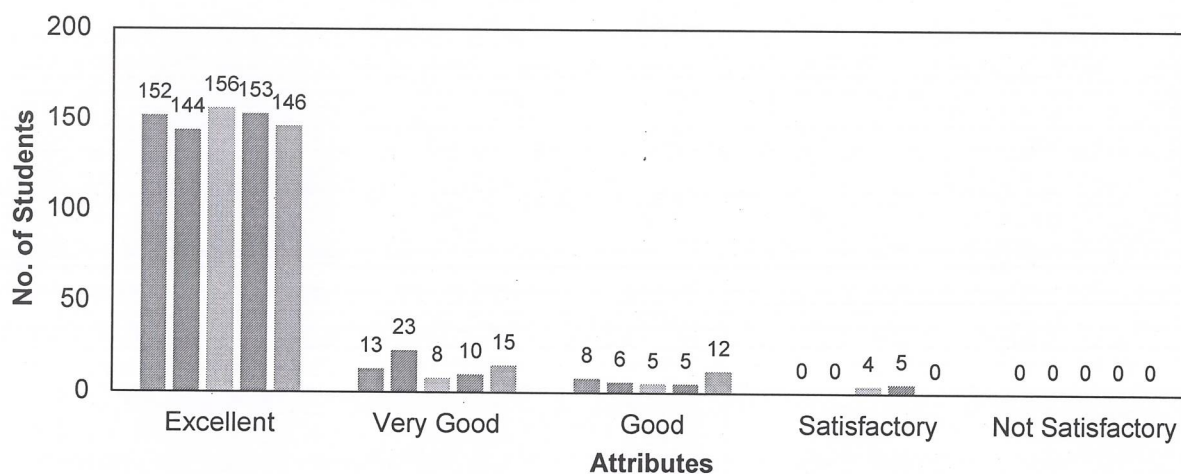


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**ACADEMIC YEAR 2024-2025**

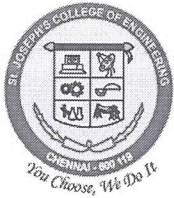
**Consolidated report of Student's Feedback on Curriculum**

CORE QUESTIONS	Excellent (%)	Very Good (%)	Good (%)	Satisfactory (%)	Not Satisfactory (%)
Course Content and Organization	152	13	8	0	0
Interactive Participation	144	23	6	0	0
Learning environment and teaching methods	156	8	5	4	0
Learning resource	153	10	5	5	0
Quality of delivery and assessment	146	15	12	0	0

**Student's Feedbacks on Curriculum**



- Course content and Organization
- Interactive Participation
- Learning environment and teaching methods
- Learning resource
- Quality of delivery and assessment



## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Student's Feedback on Curriculum

The institution collected structured feedback from students on the curriculum for the academic year 2024–2025. A total of 173 students participated. The questionnaire focused on the following core aspects: (i) Course Content and Organization, (ii) Interactive Participation, (iii) Learning Environment and Teaching Methods, (iv) Learning Resources, and (v) Quality of Delivery and Assessment.

#### Summary of Feedback

##### **1. Course Content and Organization**

88% of students rated this component as Excellent, and 13% rated it as Very Good. The students agreed that course content allocation is appropriate and aligned with programme outcomes.

##### **2. Interactive Participation**

83% rated this aspect as Excellent, with 13% marking it as Very Good. The majority expressed that teacher–student interaction is effective and supportive.

##### **3. Learning Environment & Teaching Methods**

Nearly 90% of students rated this as Excellent. The students felt adequately equipped with suitable teaching and learning methods.

##### **4. Learning Resources**

About 88% rated the availability and adequacy of learning resources as Excellent. The Library resources were found appropriate and relevant to the programme needs.

##### **5. Quality of Delivery and Assessment**

Nearly 85% rated this component as Excellent, and the remaining expressed it as Very Good. The students appreciated the clarity, fairness, and consistency of internal assessment and overall delivery.

#### General Observations

Overall, more than 80–90% of the students expressed high satisfaction across all major parameters. The curriculum design and delivery were found to be effective, student-oriented, and academically relevant.

#### Suggestions from Students

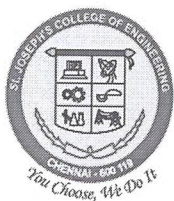
Integration of certification courses with hands-on training to strengthen practical exposure.  
Inclusion of AI-based tools and interventions in Biotechnology for enhanced industry readiness.

#### Conclusion

The student feedback highlights strong satisfaction with curriculum planning, teaching quality, learning support, and resource availability. The suggestions received will be reviewed by the curriculum committee for further enhancement.

  
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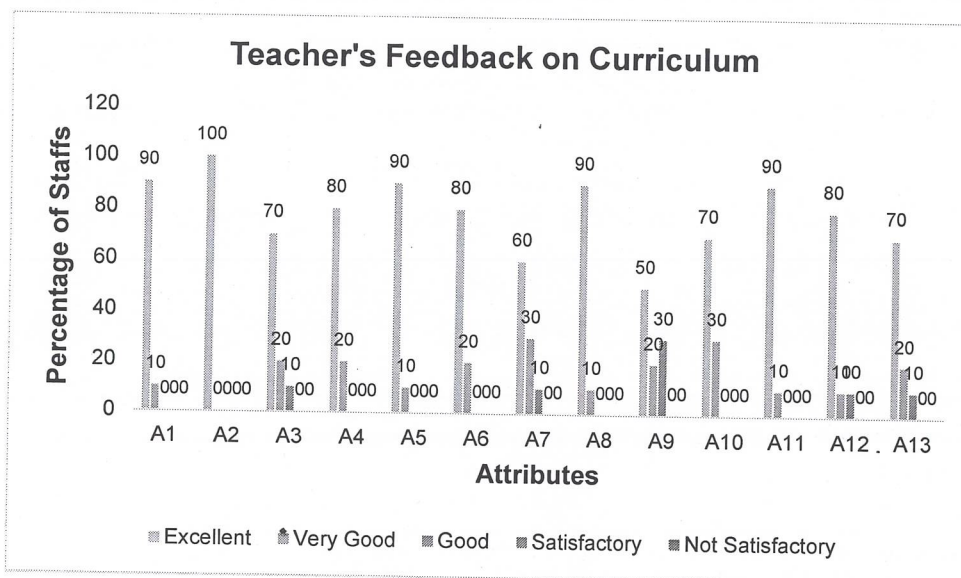


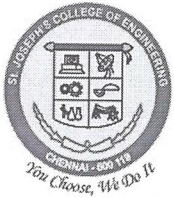
**DEPARTMENT OF BIOTECHNOLOGY**

**ACADEMIC YEAR 2024-2025**

**Teacher's Feedback on Curriculum - Analysis**

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 stake holders	100	0	0	0	0
2.	Course objectives and Outcomes of the course are well defined and clear to faculty and students	100	0	0	0	0
3.	Sufficient number of prescribed books are available in the library	70	20	10	0	0
4.	The course has good balance between theory and application.	80	20	0	0	0
5.	The course has made me interested in the subject area.	90	10	0	0	0
6.	The course has increased knowledge potential in its application	80	20	0	0	0
7.	Book facilities and other amenities like projectors, softwares etc., are available in the department	60	30	10	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.	90	10	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.	50	20	30	0	0
10.	Syllabus contain necessary technical skills for the students to face the industry needs	70	30	0	0	0
11.	The electives offered are relevant to the specialization streams and to the technological advancements.	90	10	0	0	0
12.	The laboratory experiments enhance the students in understanding the concepts and enable them to relate theory to practice (Experiential learning).	80	10	10	0	0
13.	Facilities are provided for teaching and to adopt current trends / research.	70	20	10	0	0





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**DEPARTMENT OF BIOTECHNOLOGY**  
**ACADEMIC YEAR 2024-2025**  
**Teacher's Feedback on Curriculum - Report**

Structured feedback was collected from faculty members to evaluate the effectiveness, adequacy, and relevance of the existing curriculum. The feedback form included parameters such as curriculum relevance, clarity of outcomes, availability of resources, teaching-learning flexibility, assessment practices, laboratory support, and industry alignment.

**Summary of Teachers' Feedback**

**1. Curriculum Design & Relevance:**

A majority (90–100%) of faculty members strongly agreed that the curriculum is aligned with stakeholder needs. Course objectives and outcomes are clearly stated and well understood by both teachers and students.

**2. Learning Resources:**

Around 70–80% confirmed the availability of sufficient library books, teaching aids, and departmental facilities including projectors and software.

**3. Teaching-Learning Process:**

Most teachers (90%) agreed that the schedule for tests and examinations is well maintained. About 50% strongly agreed and 30% agreed that they have adequate flexibility to use innovative pedagogies such as seminars, discussions, demonstrations, and group activities.

**4. Industry Alignment & Electives:**

Faculty members agreed that the syllabus imparts necessary technical skills and that electives are relevant to specialization areas and technological advancements.

**5. Laboratory & Experimental Learning:**

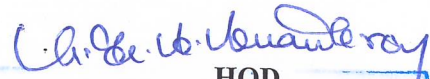
Nearly 80% felt that laboratory experiments are effective in promoting experiential learning and link theory with practical application.

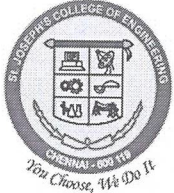
**6. Support for Research and Emerging Trends:**

About 70% agreed that adequate facilities are provided to adopt modern trends and support departmental research activities.

**Feedback Analysis & Action Points**

- Teachers expressed high satisfaction with the current curriculum structure (R-2021).
- Recommendations were provided for the upcoming curriculum revision (R-2025).
- Faculty suggested increasing exposure to AI applications in Biotechnology.
- Subject-specific recommendations have been recorded for further action at the departmental level.

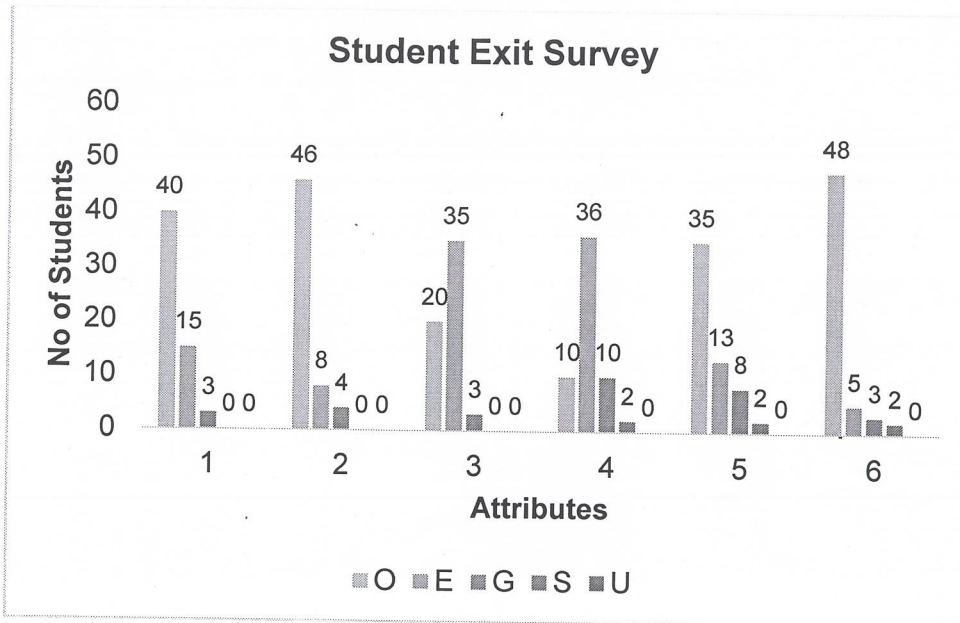
  
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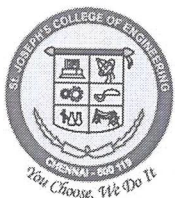


**DEPARTMENT OF BIOTECHNOLOGY**  
**ACADEMIC YEAR 2024-2025**  
**Student Exit Survey - Analysis**

S. No.	Attributes	O	E	G	S	U
1	Basic sciences and Engineering fundamentals	40	15	3	0	0
2	Usage of modern techniques in biotech processes	46	8	4	0	0
3	Project management, Commercialization & social application	20	35	3	0	0
4	Professional codes & Bioethical practices	10	36	10	2	0
5	Skills of communication and teamwork	35	13	8	2	0
6	Knowledge updating and self-learning ability towards sustained employability	48	5	3	2	0

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





## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Student Exit Survey – Report

The institution conducted the Exit Survey for the 2021–2025 outgoing batch to assess the attainment of graduate attributes, programme outcomes, and overall satisfaction with the academic experience. The survey focused on six key competencies: (i) fundamentals of science and engineering, (ii) application of modern biotechnology techniques, (iii) project management and societal relevance, (iv) professional and ethical practices, (v) communication and teamwork skills, and (vi) self-learning ability for employability.

#### Survey Summary

Overall feedback indicates a high level of satisfaction across all domains.

1. **Basic sciences and engineering fundamentals** were strongly rated, with most students marking Outstanding or Excellent, reflecting good conceptual grounding.
2. **Modern biotechnology techniques** received the highest appreciation, indicating strong laboratory exposure and hands-on skills.
3. **Project management and societal relevance** were well-rated, showing adequate opportunities for mini-projects, major projects, and community-based activities.
4. **Professional ethics and bioethics** received consistently high ratings, demonstrating students' awareness of ethical responsibilities in biotechnology practice.
5. **Communication and teamwork skills** were rated highly, attributed to seminars, presentations, assignments, and collaborative work.
6. **Self-learning and employability readiness** received strong Outstanding responses, indicating confidence in lifelong learning and adaptability for higher studies or employment.

#### Overall Observations

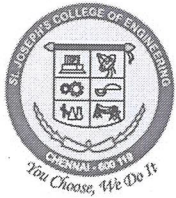
The survey confirms that the programme has effectively met its intended learning outcomes. Students expressed confidence in their technical knowledge, practical competence, ethical reasoning, communication skills, teamwork abilities, and readiness for professional roles. Only a minimal number of responses fell under Satisfactory, and none under Unsatisfactory, highlighting the strength of the curriculum, teaching–learning processes, and academic support mechanisms.

#### Conclusion

The Exit Survey for the 2021–2025 batch indicates high student satisfaction with academic quality, skill development, and overall learning experience. The feedback will be incorporated into future curriculum revisions to ensure continuous improvement and enhanced career preparedness for upcoming batches.

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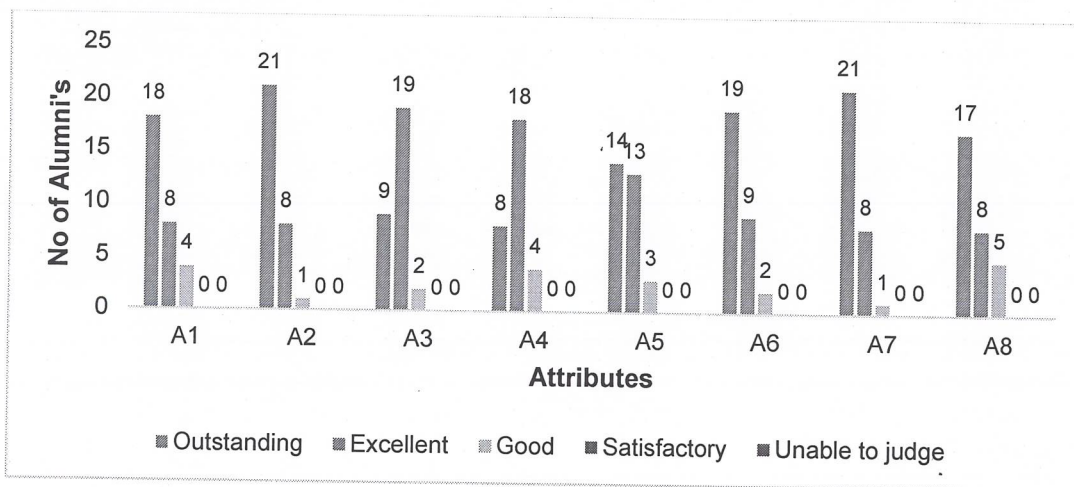


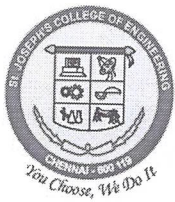
## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Alumni Feedback – Analysis

S. No.	Attributes	Outstanding	Excellent	Good	Satisfactory	Unable to judge
1.	Basic sciences and Engineering fundamentals	18	8	4	0	0
2.	Usage of modern techniques in biotech processes	21	8	1	0	0
3.	Project management, Commercialization & social application	9	19	2	0	0
4.	Professional codes & Bioethical practices	8	18	4	0	0
5.	Skills of Communication and Team work	14	13	3	0	0
6.	Effectiveness of placement enhancement programs	19	9	2	0	0
7.	Effectiveness of Higher studies guidance	21	8	1	0	0
8.	Ability to meet the current Industrial / Research challenges	17	8	5	0	0





## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Alumni Feedback – Report

Alumni feedback was collected from nearly 30 graduates of the Department of Biotechnology for the academic year 2024–2025. The institution values alumni contributions, particularly for curriculum development, employability enhancement, and continuous academic improvement. The feedback reveals that alumni feel proud to be associated with the institution and express willingness to support its future growth.

#### Summary of Feedback

The analysis indicates that the majority of attributes were rated Outstanding or Excellent by most alumni. A smaller proportion rated certain attributes as Good, with no ratings in the Satisfactory or Unable to Judge categories, demonstrating a positive alumni perception of the programme.

1. **Basic sciences and engineering fundamentals** received strong Outstanding and Excellent ratings, reflecting robust foundational teaching.
2. **Modern biotech techniques** secured the highest Outstanding responses, indicating strong laboratory exposure and practical skill development.
3. **Project management, commercialization, and societal relevance** were predominantly rated Excellent, highlighting opportunities provided through project-based learning.
4. **Professional ethics and bioethical practices** received high Excellent feedback, showing effective emphasis on responsible scientific conduct.
5. **Communication and teamwork** skills were positively rated, reflecting enhancement through seminars, presentations, and collaborative activities.
6. **Placement enhancement programmes** received favourable Outstanding responses, indicating satisfaction with training and guidance provided.
7. **Higher studies guidance** was highly appreciated, demonstrating effective support for competitive exams and postgraduate pathways.
8. **Ability to meet industrial and research challenges** received strong ratings, indicating that the curriculum equips graduates with relevant skills.

#### Strengths Identified

Well-qualified and supportive faculty members, Well-structured and organized academic schedule and Effective placement training and guidance programmes

#### Scope for Improvement

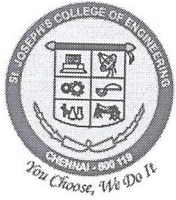
Strengthening awareness of advanced education and global research opportunities through alumni interactions and Increasing focused initiatives for industry alignment and innovation-driven learning.

#### Conclusion

From the alumni feedback analysis, it is evident that most alumni are highly satisfied with the academic experience, skill development, and overall environment of the department. They expressed that they would recommend the institution to peers and relatives, reflecting trust and confidence in the programme.

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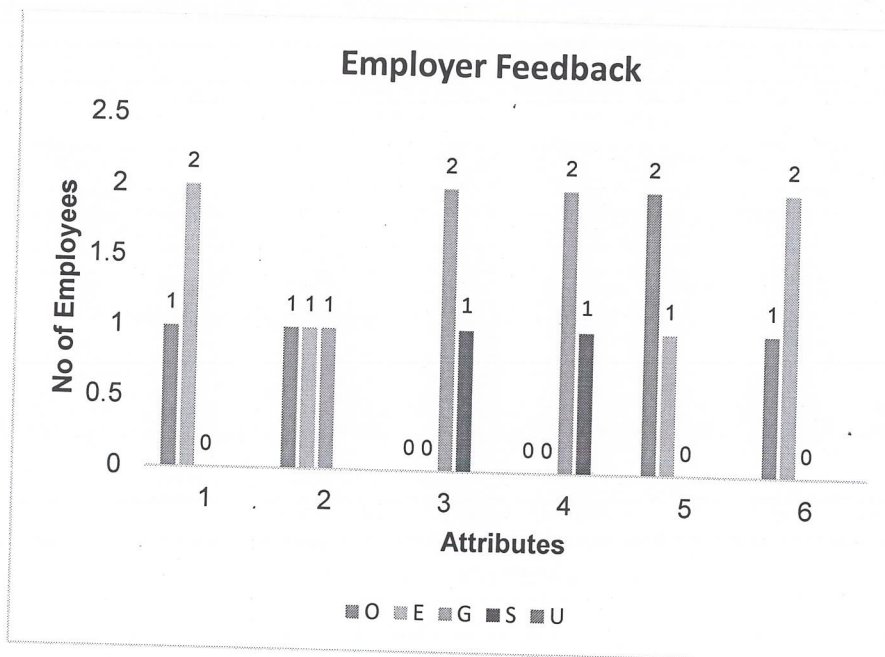
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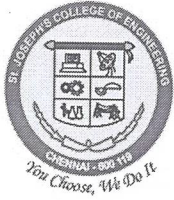
ACADEMIC YEAR 2024-2025

### Employer's Feedback - Analysis

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

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





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## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Employer's Feedback – Report

Employer feedback was collected from organizations employing graduates of the 2021–2025 batch to assess their competence, professional behavior, and workplace readiness. The institution considers employer input crucial for improving curriculum relevance and employability skills.

#### Summary of Feedback

Overall, employers expressed satisfaction with the performance of graduates. Most attributes were rated Outstanding, Excellent, or Good, with very few Satisfactory responses and none under Unsatisfactory. Graduates were appreciated for their strong fundamentals, adequate exposure to modern biotech techniques, and good communication and teamwork skills. Self-learning and adaptability received high endorsement, indicating graduates' readiness for continuous professional growth. Moderate ratings in project management and bioethical practices suggest scope for strengthening real-time industrial exposure and professional ethics training.

#### Strengths

- Strong conceptual knowledge and technical competence.
- Effective communication and teamwork abilities.
- High adaptability and self-directed learning skills.

#### Areas for Improvement

- Increased exposure to industrial projects and real-time problem-solving.
- Better reinforcement of professional ethics and regulatory practices.
- Enhanced training on advanced biotech tools and instrumentation.

#### Employer Suggestions

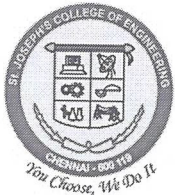
- Provide more internships and industry-oriented training modules.
- Conduct expert sessions and workshops on emerging technologies.
- Strengthen students' understanding of ethical and safety practices.

#### Conclusion

Employer feedback reflects that graduates meet industry expectations and perform effectively in professional settings. The department will integrate the suggestions received to further enhance curriculum quality and graduate employability.

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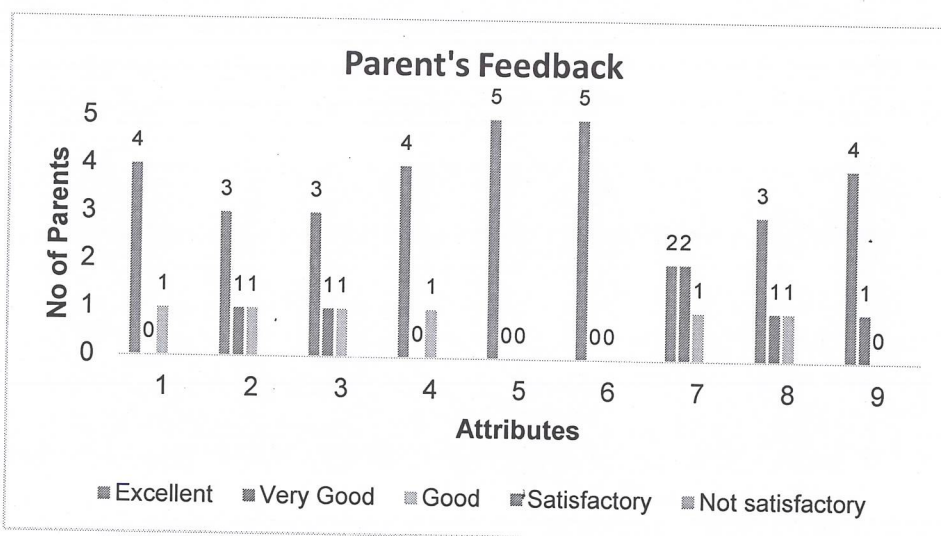


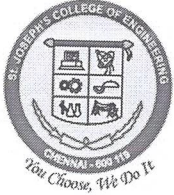
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ACADEMIC YEAR 2024-2025

### Parent's Feedback - Analysis

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





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## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Parent's Feedback – Report

Parent feedback was collected to assess the effectiveness of academic support, facilities, and student development. The responses indicate high overall satisfaction, with most attributes rated Excellent or Very Good, and no negative feedback recorded.

#### Summary of Feedback

Parents appreciated the institution's student counselling, discipline, library access, and co-curricular activities. Core facilities such as mess and transport received the highest Excellent ratings, reflecting strong administrative support. Feedback on industrial exposure, placement training, and higher studies guidance was positive, though a few Good ratings suggest scope for further strengthening these areas.

#### Key Strengths

- Effective student counselling and mentoring.
- Good discipline and supportive campus environment.
- Well-maintained mess, transport, and library facilities.

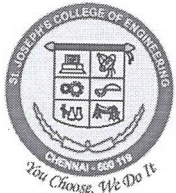
#### Areas for Improvement

- Enhance industry exposure and hands-on learning.
- Strengthen placement preparation activities.

#### Conclusion

Parents expressed confidence and satisfaction with the institution's academic and support systems. Their suggestions will be considered to further improve student readiness and overall learning experience.

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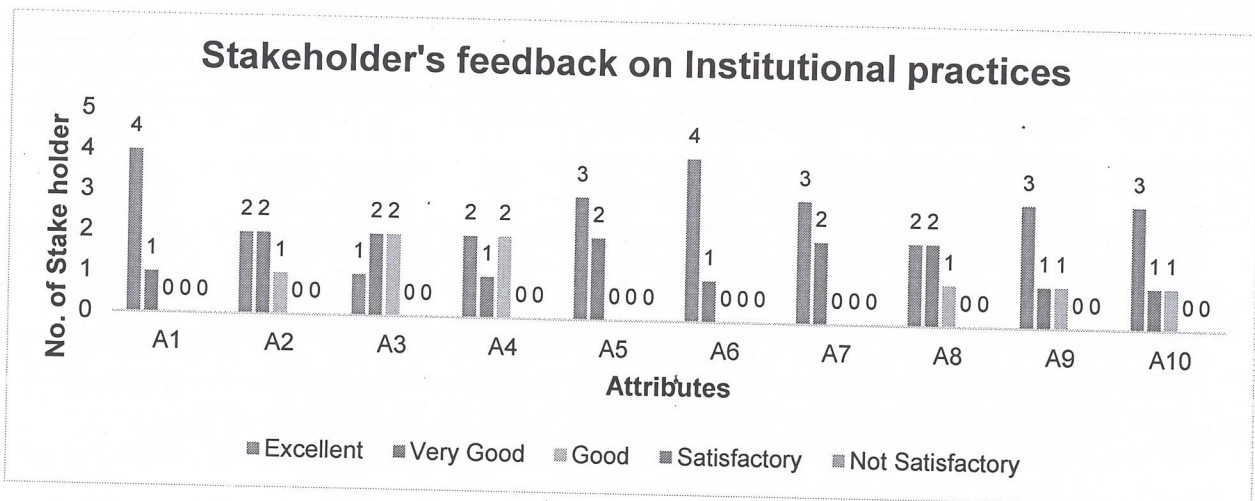


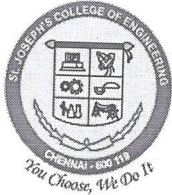
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ACADEMIC YEAR 2024-2025

### Stakeholder's Feedback on Institutional practices - Analysis

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





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## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Stakeholder's Feedback on Institutional practices – Report

Stakeholders expressed strong satisfaction with the learning and teaching methods, learning environment, and internal assessment practices. The library resources and computing/laboratory facilities were also well rated, confirming that adequate academic and practical support is provided. The institution's emphasis on counseling and guidance, discipline, teamwork, engineering problem-solving, and communication skills received highly positive feedback, reflecting effective student support and holistic development initiatives.

#### Key Strengths

- Effective teaching–learning processes and supportive academic environment.
- Well-maintained computing and laboratory facilities.
- Strong counseling and mentoring support.
- Good institutional discipline and promotion of teamwork.
- Adequate focus on communication and analytical problem-solving skills.

#### Areas for Improvement


Enhancement of library resources and reading materials.  
Periodic review of internal assessment methods to further improve student satisfaction.

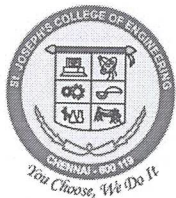
#### Action Taken

Faculty instructed to augment library holdings and digital learning resources.  
Internal assessment practices reviewed for better clarity, transparency, and student comfort.  
Additional academic support sessions planned to strengthen communication and problem-solving skills.

#### Conclusion

Overall, the stakeholder feedback reflects a high level of satisfaction with the institution's academic practices. The institution remains committed to continuous improvement through structured review and stakeholder engagement.

  
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### Stakeholder's Feedback on Academic practices and Actions taken

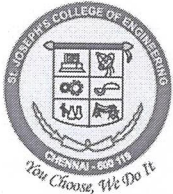
Stakeholder	Feed back	Action Taken by the Institute
Students	Alumni interaction would provide valuable career guidance and help students make informed academic and professional decisions.	Alumni were invited to deliver talks and share their higher-studies and placement experiences through Alumni Connect Programs and mock interview sessions.
Staffs	Additional training is required to equip students with essential skills for both core and software-oriented industries.	Students were categorized based on skill levels, and the "HOPE" and "PEP" training programs were introduced to support those aiming for higher-level placements.
Parents	The number of internal assessments may be reduced.	The internal assessment structure was revised and standardized to three model examinations.
Alumni	Students should be encouraged to undertake mini-projects to enhance their technical and project-handling skills.	The academic schedule was modified to provide adequate opportunities for students to complete mini-projects and internships.
Employer	A stronger emphasis on programming skills would improve the employability of Biotechnology graduates.	Placement training was strengthened with an increased focus on programming skills, supplemented with core-domain skill development.

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*[Signature]*

**PRINCIPAL**



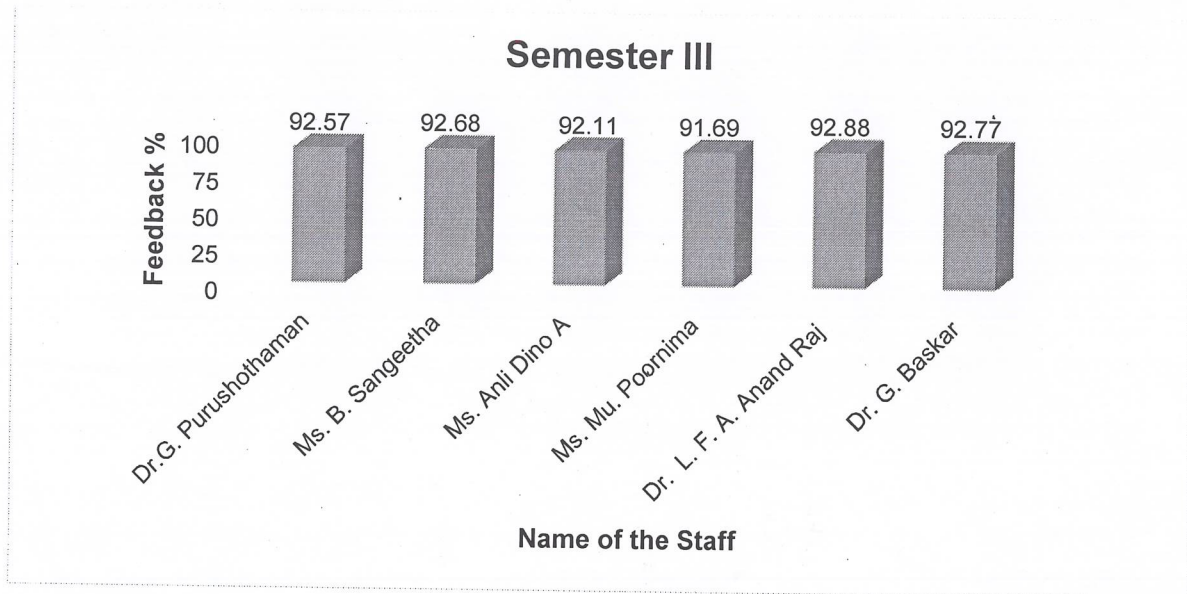
## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Student's Feedback on Staffs

II YEAR / III SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
MA1301	Transforms and Partial Differential Equations	Dr.G. Purushothaman	92.57
BT1301	Process Calculations	Ms. B. Sangeetha	92.68
BT1302	Basic Industrial Biotechnology	Ms. Anli Dino A	92.11
BT1303	Microbiology	Ms. Mu. Poornima	91.69
BT1304	Biochemistry-I	Dr. L. F. A. Anand Raj Dr. G. Baskar	92.88 92.77
BT1305	Molecular Biology	Dr. K. R. Preethy	92.53



*Dr. L. F. A. Anand Raj*  
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Principal



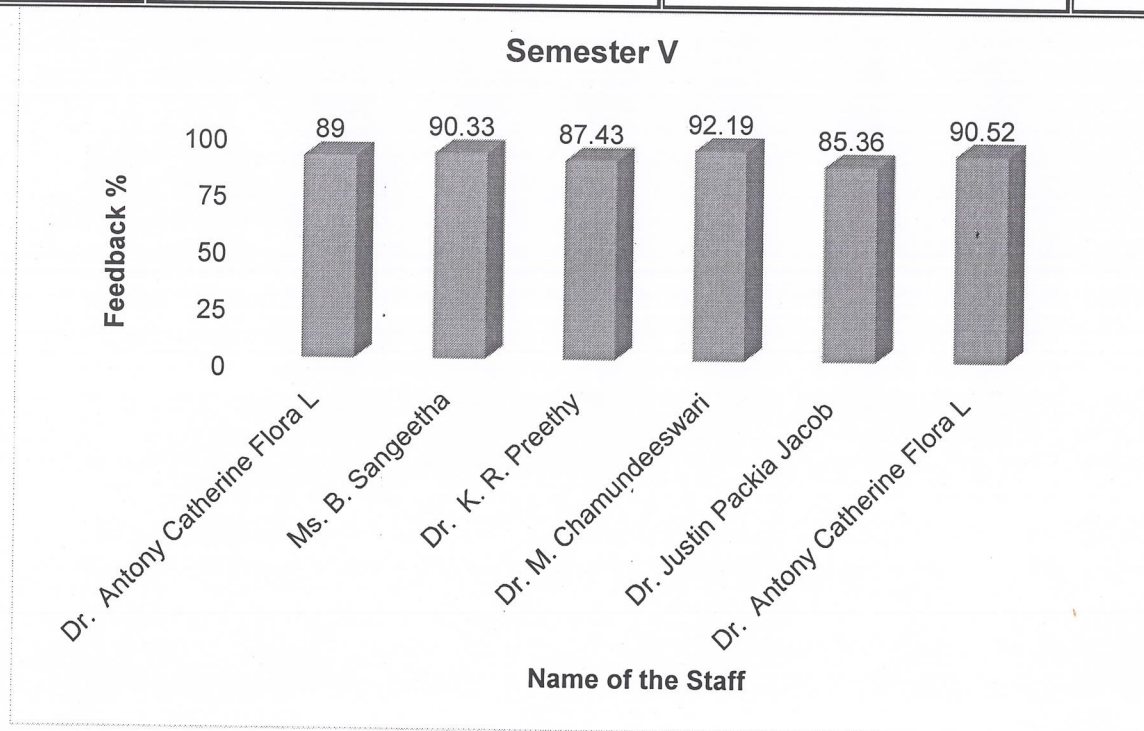
## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Student's Feedback on Staffs

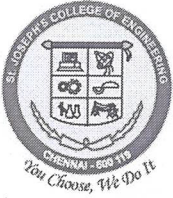
III YEAR / V SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT1501	Mass Transfer Operations	Dr. Antony Catherine Flora L	89
BT1502	Bioprocess Engineering	Ms. B. Sangeetha	90.33
BT1503	Analytical Methods & Instrumentation	Dr. K. R. Preethy	87.43
BT1504	Protein Engineering	Dr. M. Chamundeewari	92.19
BT1002	Principles of Food Processing	Dr. Justin Packia Jacob	85.36
OCH103	Environment and Agriculture	Dr. Antony Catherine Flora L	90.52



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## DEPARTMENT OF BIOTECHNOLOGY

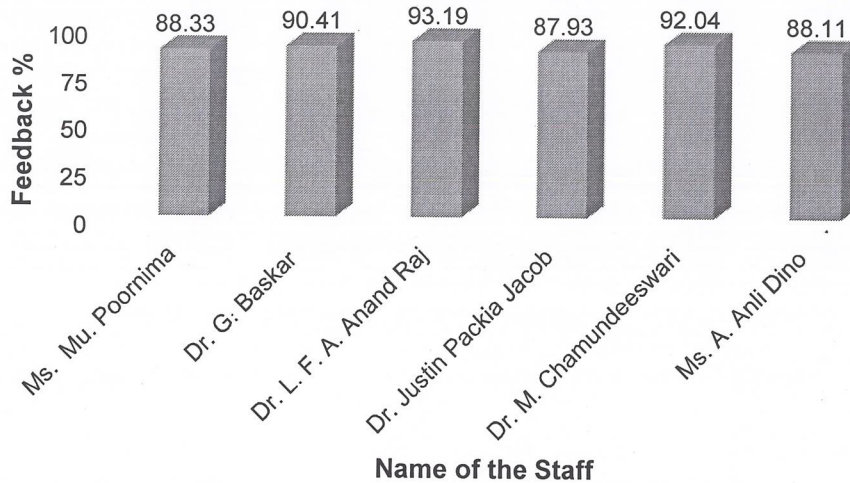
ACADEMIC YEAR 2024-2025

### Student's Feedback on Staffs

IV YEAR / VII SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT1701	Total Quality Management for Biotechnologists	Ms. Mu. Poornimaa	88.33
BT1702	Downstream Processing	Dr. G. Baskar	90.41
BT1703	Immunology	Dr. L. F. A. Anand Raj	93.19
BT1017	Plant Biotechnology	Dr. Justin Packia Jacob	87.93
BT1021	Tissue Engineering	Dr. M. Chamundeewari	92.04
OCH101	Hospital Management	Ms. A. Anli Dino	88.11

### Semester VII



*Dr. L. F. A. Anand Raj*

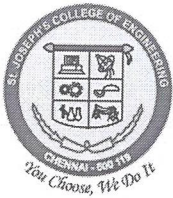
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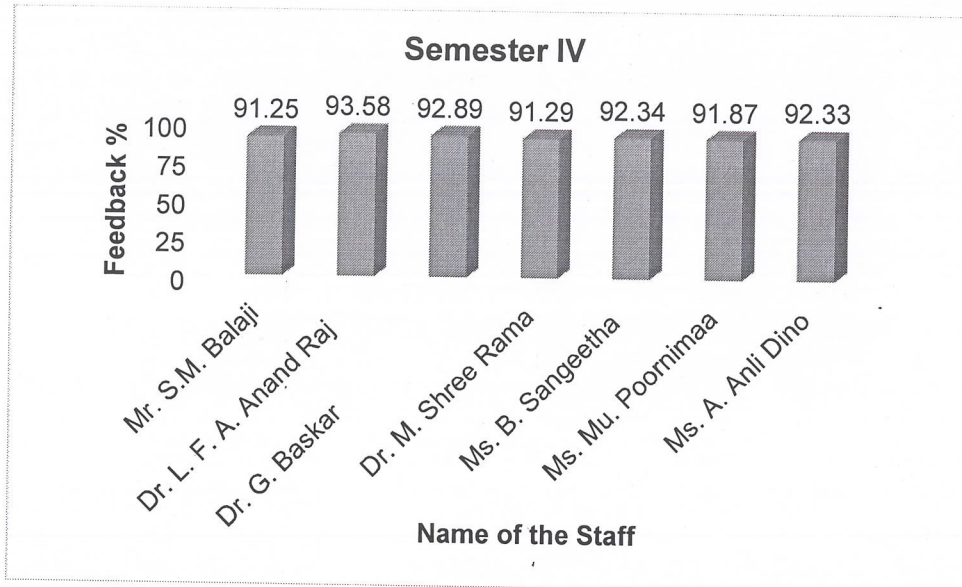
## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Student's Feedback on Staffs

II YEAR / IV SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
MA1452	Applied Probability and Statistics	Mr. S.M. Balaji	91.25
BT1401	Biochemistry-II	Dr. L. F. A. Anand Raj	93.58
BT1402	Enzyme Engineering	Dr. G. Baskar	92.89
BT1403	Fluid Mechanics and Heat Transfer Operations	Dr. M. Shree Rama	91.29
BT1404	Bioprocess Principles	Ms. B. Sangeetha/ Ms. Mu. Poornima	92.34 91.87
BT1405	Applied Thermodynamics for Biotechnologists	Ms. A. Anli Dino	92.33



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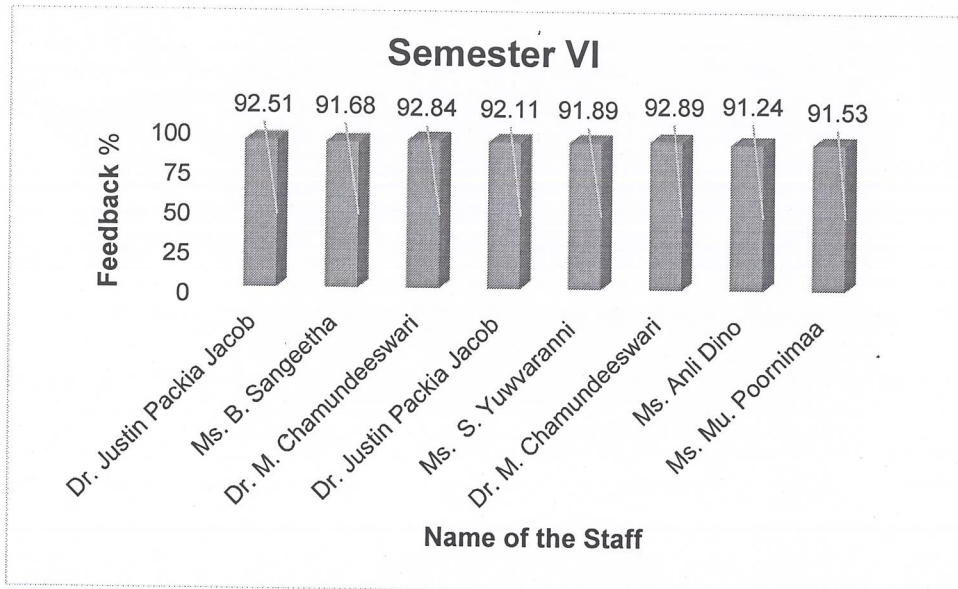
## DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2024-2025

### Student's Feedback on Staffs

III YEAR / VI SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT1601	Computational Biology	Dr. Justin Packia Jacob	92.51
BT1602	Applied Chemical Reaction Engineering	Ms. B. Sangeetha	91.68
BT1603	Genetic Engineering	Dr. M. Chamundeewari	92.84
BT1005	Animal Biotechnology	Dr. S. Justin Packia Jacob (A) Ms.S. Yuwvaranni (B)	92.11 91.89
BT1010	Biopharmaceutical Technology	Dr. M. Chamundeewari (A) Ms. Anli Dino (B)	92.89 91.24
BT1016	Lifestyle Diseases	Ms. Mu. Poornimaa	91.53



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