

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 2019-2020

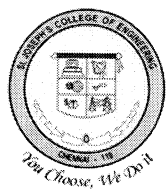
| S.No | Stake holders | Feed back | Action Taken by the Institute |
|------|---------------|--|---|
| 1. | Student | Animal handling classes could be provided | VAC on Animal handling was given for student's during the semester |
| 2. | Staff | Need exposure to the core verticals of industry | Industrial visits and Guest Lectures had been arranged to bridge the gap in curriculum |
| 3. | Parent | Required hands on session on advanced biotech techniques | Value added course has been conducted on various techniques in college for each semester |
| 4. | Alumni | Syllabus could cover major biotech industrial sector oriented papers | Inclusion of Open elective for students to take up Industrial related papers |
| 5. | Employer | Students are expected to be updated in the current technologies | Students are advised in the mentor session to upgrade their knowledge on current biotechnological techniques and research work by undertaking Miniproject |


HOD

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JFPPIAAR EDUCATIONAL TRUST,
Old Mamallapuram Road, Chennai- 600 119.



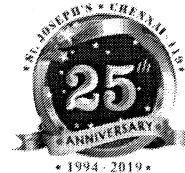
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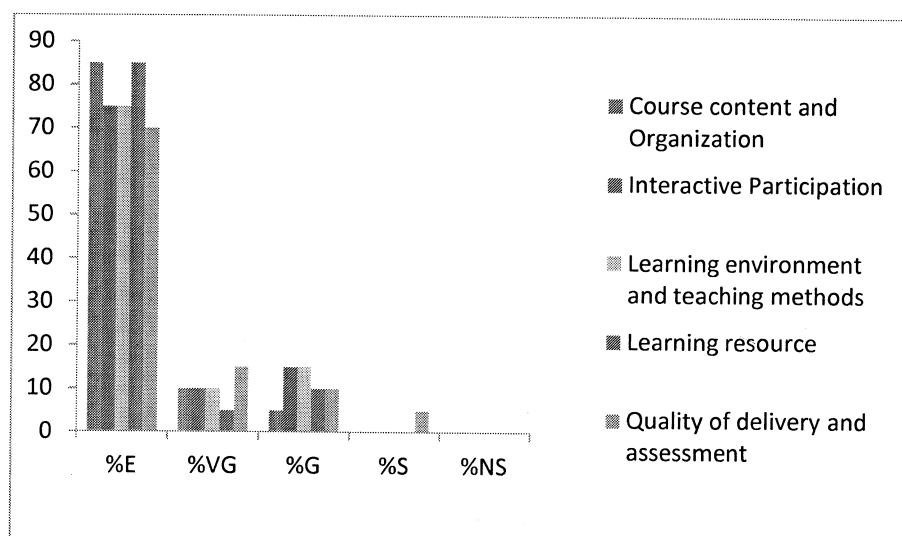
DEPARTMENT OF BIOTECHNOLOGY

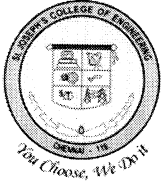
Consolidation of Students Feedback on Curriculum



ACADEMIC YEAR 2019-2020

| CORE QUESTIONS | %E | %VG | %G | %S | %NS |
|---|----|-----|----|----|-----|
| Course content and Organization | 85 | 10 | 5 | 0 | 0 |
| Interactive Participation | 75 | 10 | 15 | 0 | 0 |
| Learning environment and teaching methods | 75 | 10 | 15 | 0 | 0 |
| Learning resource | 85 | 5 | 10 | 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

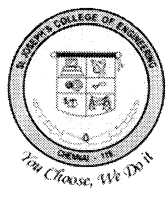
The college has obtained feedback on curriculum from students through questionnaire which contains the following major aspects such as Course content & Organization, Interactive participation, Learning environment & teaching methods, Learning resource and Quality of delivery and assessment. Total students strength was 171. Few students gave their feedback on curriculum for the academic year 2019-2020. 85% of the students 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 75% 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 was agreed to be good by many students
- orientation towards industrial based learning could be engrossed


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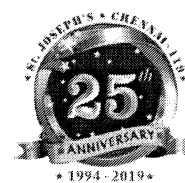
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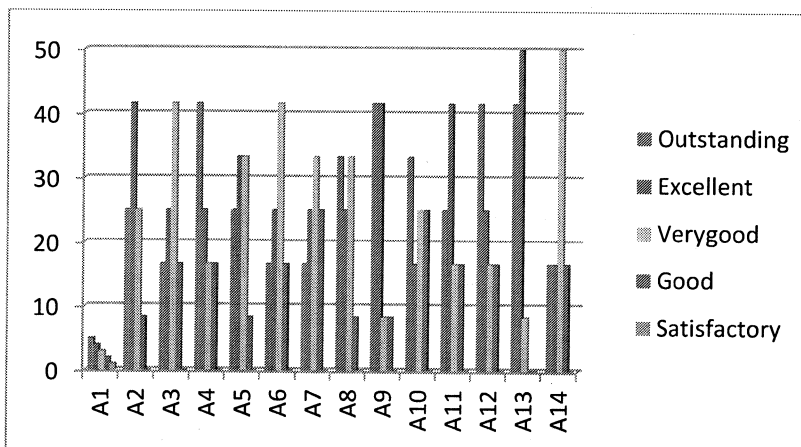
Teachers Feedback on Curriculum - Analysis

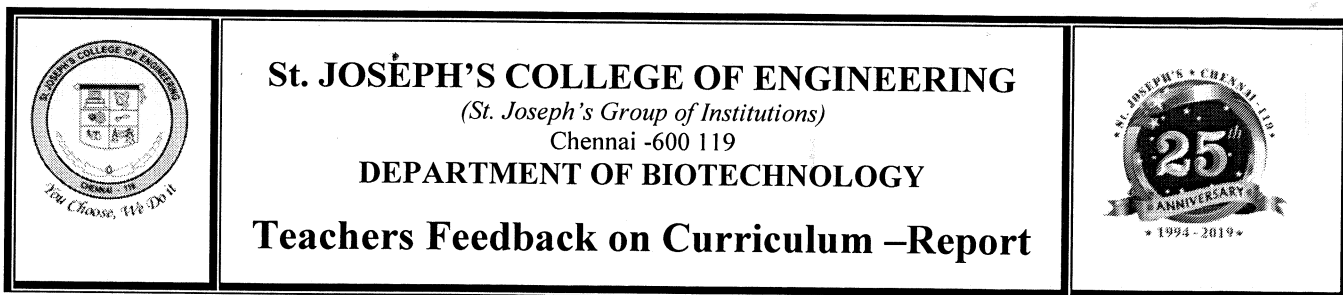


Academic Year: 2019-2020

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 | 25 | 41.6 | 25 | 8.33 | 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. | 33.3 | 16.6 | 25 | 25 | 0 |
| 10. | Syllabus contain necessary technical skills for the students to face the industry needs | 25 | 41.6 | 16.6 | 16.6 | 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 |
| | Facilities are provided for teaching and to adopt current trends / research. | 16.6 | 16.6 | 50 | 16.6 | 0 |





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 students workshops are organized to fill the gap in the curriculum.

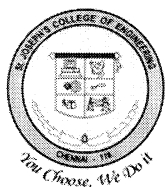
Feedback analysis report:

- The analysis report of the teachers' feedback reveals that they are highly satisfied with the framework of the curriculum.
- Enrollment and enrichment of the students' knowledge in various online courses was observed
- More training programs should 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: 2019-2020

Batch 2016-2020

| 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 | 1 | 2 | 2 | 1 | 0 |
| Total | | 6 | 10 | 16 | 2 | 0 |

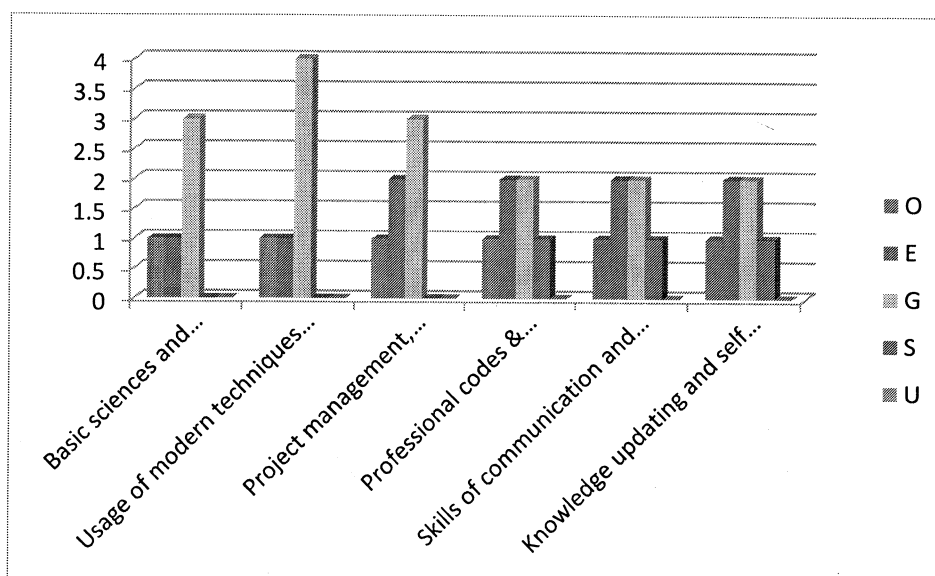
O - Outstanding

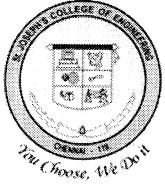
E - Excellent

G - Good

S - Satisfactory

U - Unable to judge





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DEPARTMENT OF BIOTECHNOLOGY

Student Exit Survey Analysis



ACADEMIC YEAR: 2019-2020

Batch 2016-2020

Strength

- Project management, Commercialization & social application of the Course see are satisfactory

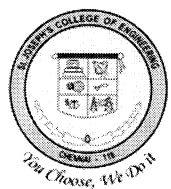
Weakness

- Usage of Modern Techniques in Biotech process seems to be good in the college, updation pertaining to industrial level would be appreciated



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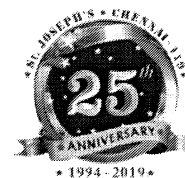
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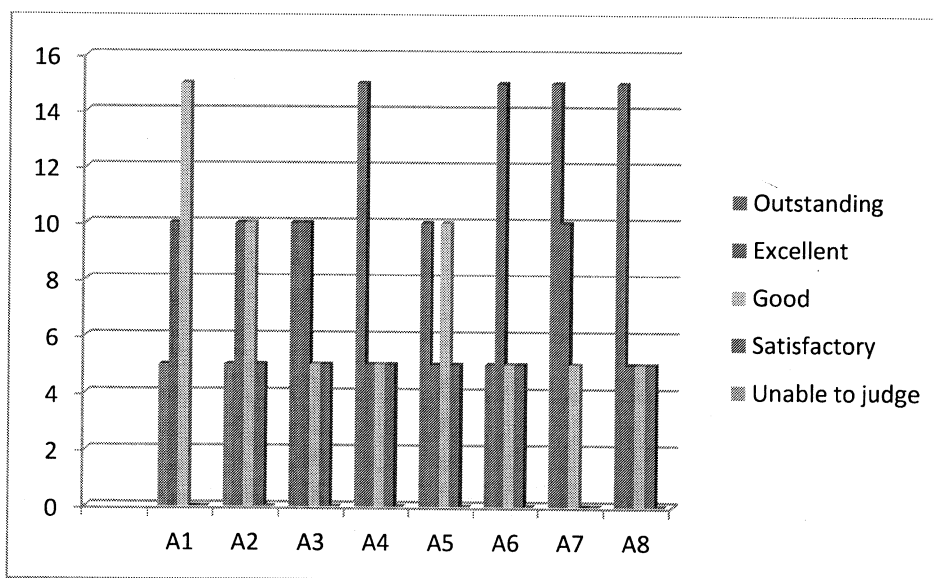
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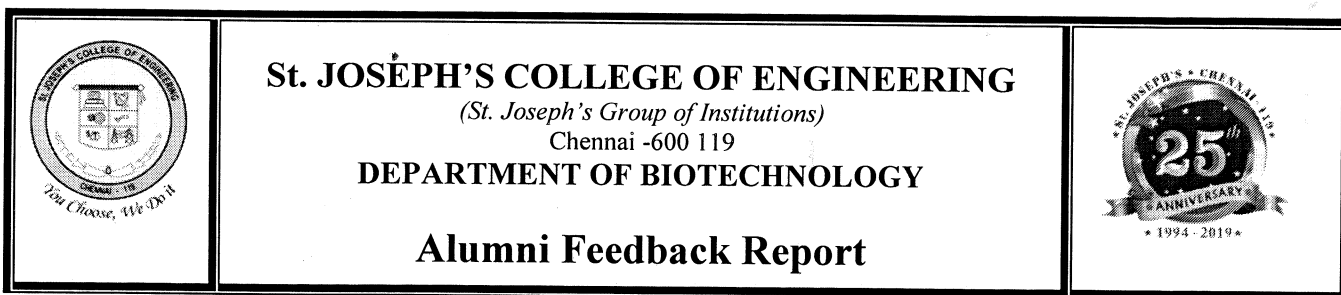
Alumni Feedback Analysis



Academic Year: 2019-2020

| 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 | 10 | 5 | 10 | 5 | 0 |
| 6. | Effectiveness of Placement enhancement programs | 5 | 15 | 5 | 5 | 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 |
| Total | | 80 | 70 | 60 | 30 | 0 |





Academic Year: 2019-2020

Alumni feedback was obtained from nearly 30 alumni for the academic year 2019-2020. 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

Weakness

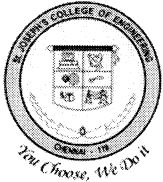
1. Mini projects have to be included in the curriculum.
2. Need more career enhancement awareness pertaining to core industry

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 enrol in this institution for this course.

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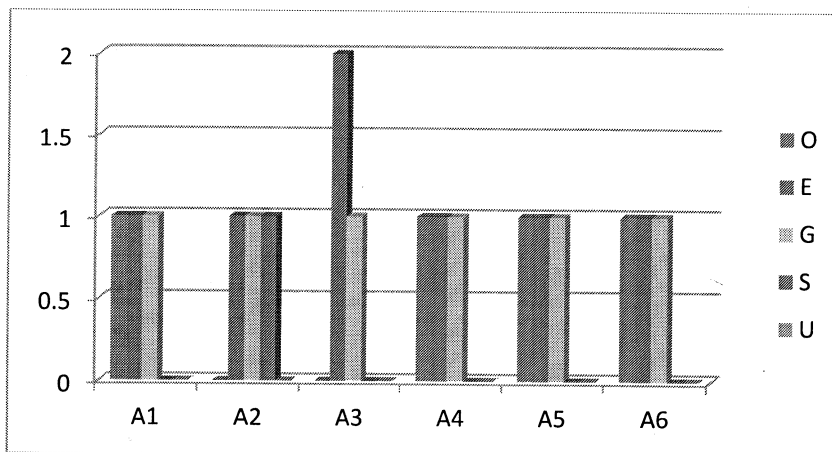
Employer Feedback Analysis and Report



ACADEMIC YEAR: 2019-2020

| 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 | 0 | 1 | 1 | 1 | 0 |
| 3. | Project management, Commercialization & social application | 0 | 2 | 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 | 1 | 1 | 1 | 0 | 0 |

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

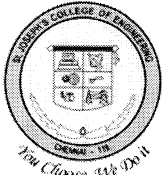


FEEDBACK

- Usage of modern techniques in biotechnology field could be included in the syllabus in respective semester
- Motivation of students to bring up self learning attitude in performing research work in industries have to be focused more

[Signature]
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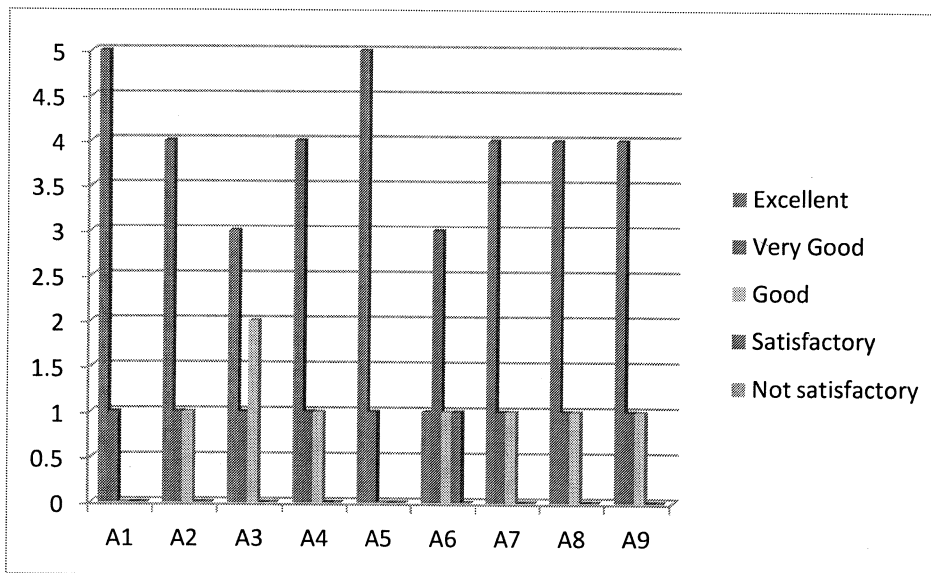
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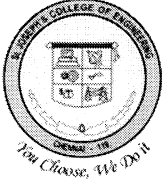
Parents Feedback Analysis



ACADEMIC YEAR 2019-2020

| 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 | 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 | 4 | 1 | 1 | 0 | 0 |
| 9. | Guidance provided for higher studies | 4 | 1 | 1 | 0 | 0 |
| Total | | 34 | 11 | 8 | 1 | 0 |





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DEPARTMENT OF BIOTECHNOLOGY

Parents Feedback Report



ACADEMIC YEAR 2019-2020

Feedbacks

Strength

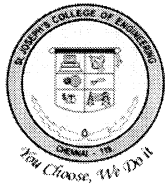
- Student's counselling and guidance in the department are extremely good
- Mess facility are extraordinary in the college

Weakness

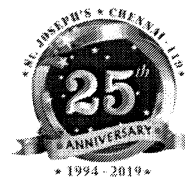
- Transport timing and change in routes during exams could be intimated earlier

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DEPARTMENT OF BIOTECHNOLOGY
**Stakeholders Report on Institutional and Academic
Evaluation**



Academic Year: 2019-2020

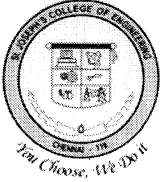
| S.No | Feed back | Action Taken by the Institute |
|------|---|---|
| 1. | Internal Evaluation method is useful for learning the course | Internal assessment methods was designed for each unit to ease the learning process |
| 2. | Extend of participatory learning and student involvement should be improved | Involvement of students has been improved by having interactive session, Activity based learning and conducting using ICT technology |
| 3. | Career oriented program for higher studies are being organized very well on the college | Periodic Education Fair has been organized by ABHS department inviting the consultants from various foreign Universities |
| 4. | Mini projects are to be made compulsory at the end of the 6 th semester to support Placement | Short term project are insisted to the students and students are given guidance internally and in external research center to carry out the project |
| 5. | Importance of ability to learn more modern technology in filed to be insisted ti the students | VAC has been conducted in college in odd semesters to enrich the students knowledge in modern technology |

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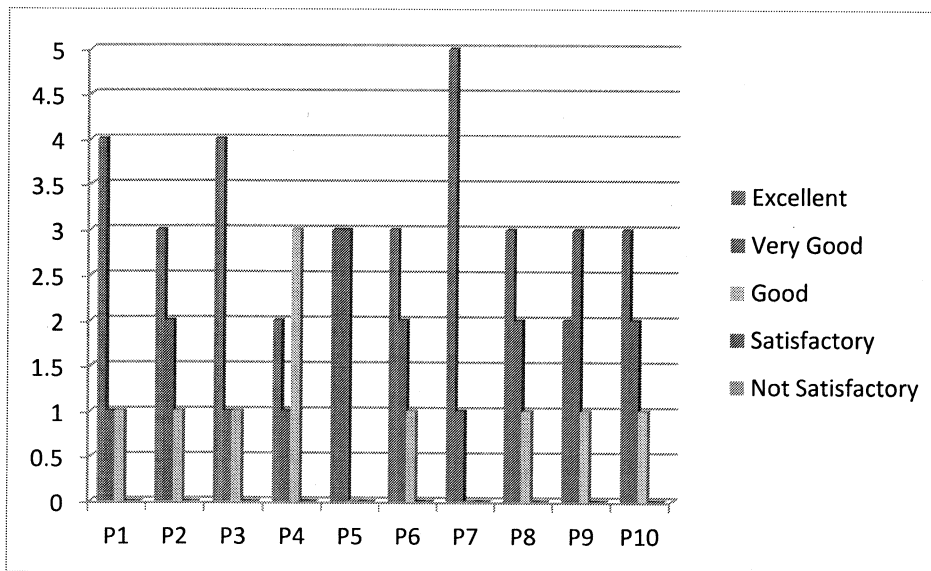
DEPARTMENT OF BIOTECHNOLOGY

Stakeholders Report on Institutional and Academic Evaluation



Academic Year: 2019-2020

| S. No | Parameters | Excellent | Very Good | Good | Satisfactory | Not Satisfactory |
|-------|-------------------------------|-----------|-----------|------|--------------|------------------|
| 1. | Learning and Teaching methods | 4 | 1 | 1 | 0 | 0 |
| 2. | Learning environment | 3 | 2 | 1 | 0 | 0 |
| 3. | Resources in library | 4 | 1 | 1 | 0 | 0 |
| 4. | Internal assessment | 2 | 1 | 3 | 0 | 0 |
| 5. | Counseling and Guidance | 3 | 3 | 0 | 0 | 0 |
| 6. | Computing / Lab facility | 3 | 2 | 1 | 0 | 0 |
| 7. | Discipline | 5 | 1 | 0 | 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 |

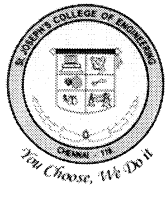


Feedback

- Stakeholders feel that learning and teaching methodology, Discipline and resource in the library are excellent in the college premises

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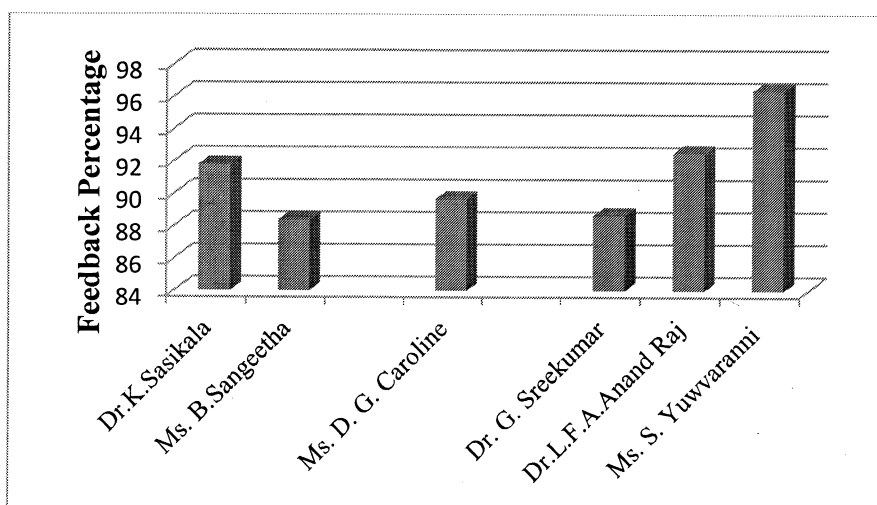
Students Feedback on Staffs



ACADEMIC YEAR 2019-2020 - ODD SEMESTER

II YEAR / III SEM

| Subject Code | Subject | Name of the staff | Feedback Percentage |
|--------------|---|--------------------|---------------------|
| MA8353 | Transforms and Partial Diff. Equations | Dr.K.Sasikala | 91.81 |
| BT8301 | Stoichiometry and Fluid Mechanics | Ms. B.Sangeetha | 88.39 |
| BT8302 | Applied Thermodynamics for Biotechnologists | Ms. D. G. Caroline | 89.67 |
| BT8303 | Basic Industrial Biotechnology | Dr. G. Sreekumar | 88.64 |
| BT8304 | Bioorganic Chemistry | Dr.L.F.A.Anand Raj | 92.52 |
| BT8305 | Cell Biology | Ms. S. Yuwvaranni | 96.36 |

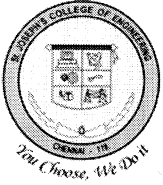



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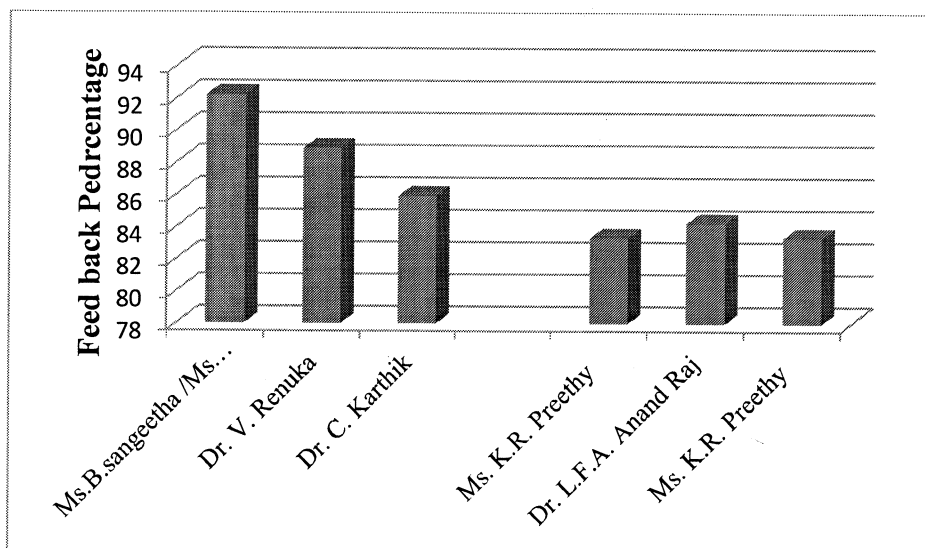


Students Feedback on Staffs

ACADEMIC YEAR 2019-2020 - ODD SEMESTER

III YEAR / V SEM

| Subject Code | Subject | Name of the staff | Feedback Percentage |
|--------------|---|---------------------------------|---------------------|
| BT8501 | Mass Transfer Operation | Ms.B.sangeetha /Ms. G.Kalavathy | 92.21 |
| BT8591 | Bioprocess Engineering | Dr. V. Renuka | 88.89 |
| BT8502 | Analytical Methods and Instrumentation | Dr. C. Karthik | 85.93 |
| BT8503 | Protein Structure Function and Proteomics | Ms. K.R. Preethy | 83.33 |
| BT8003 | Elective – I: Principles of Food Process | Dr. L.F.A. Anand Raj | 84.26 |
| OA1551 | Elective – II: Environmental Agriculture | Ms. K.R. Preethy | 83.35 |

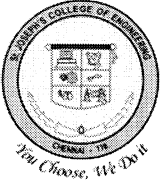


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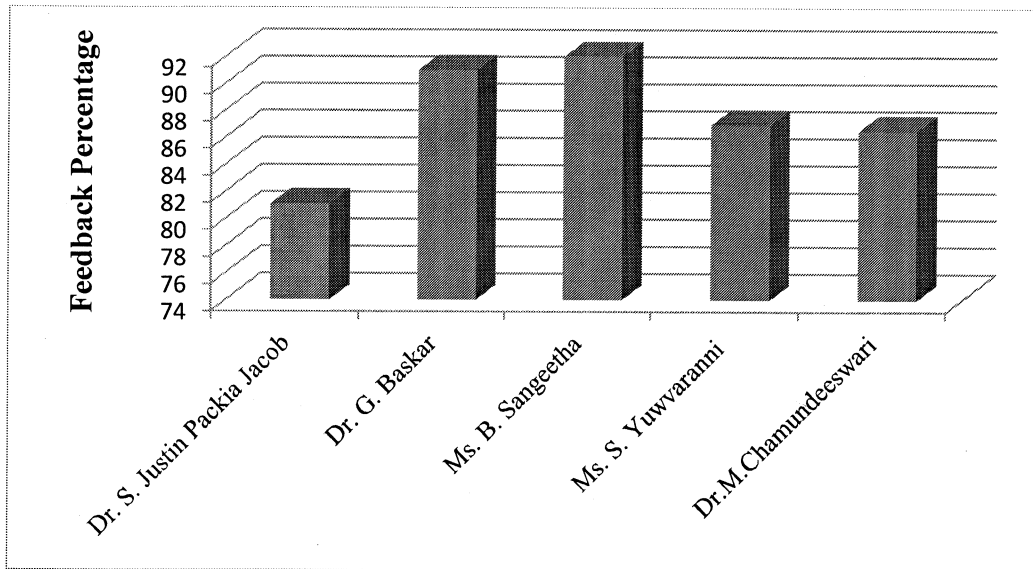
Students Feedback on Staffs



ACADEMIC YEAR 2019-2020 - ODD SEMESTER

IV YEAR / VII SEM

| Subject Code | Subject | Name of the staff | Feedback Percentage |
|--------------|--|----------------------------|---------------------|
| BT6701 | Bioinformatics and Computational Biology | Dr. S. Justin Packia Jacob | 81.08 |
| BT6702 | Downstream Processing | Dr. G. Baskar | 90.96 |
| BT6703 | Creativity, Innovation and New Product Development | Ms. B. Sangeetha | 91.98 |
| BT6014 | Bio Industrial Entrepreneurship | Ms. S. Yuwvaranni | 86.92 |
| BT6017 | Tissue Engineering | Dr.M.Chamundeeswari | 86.51 |



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