

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 2017-2018

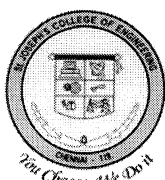
S.No	Stake holders	Feed back	Action Taken by the Institute
1.	Student	More weightage must be given to projects	The concept of project exhibition is introduced for the third year students and preference given to the students, who performed well for participating in symposiums and other events outside the college.
2.	Staff	Need exposure to the core verticals of industry	Industrial visits had been arranged to bridge the gap in curriculum
3.	Parent	Required hands on session on advanced	Students are instructed to take up inplant or hands on training
4.	Alumni	Syllabus could cover major biotech industrial sector oriented papers	Coverage of medical biotechnology and bioinformatics tools pertaining lab was included in R-2017
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

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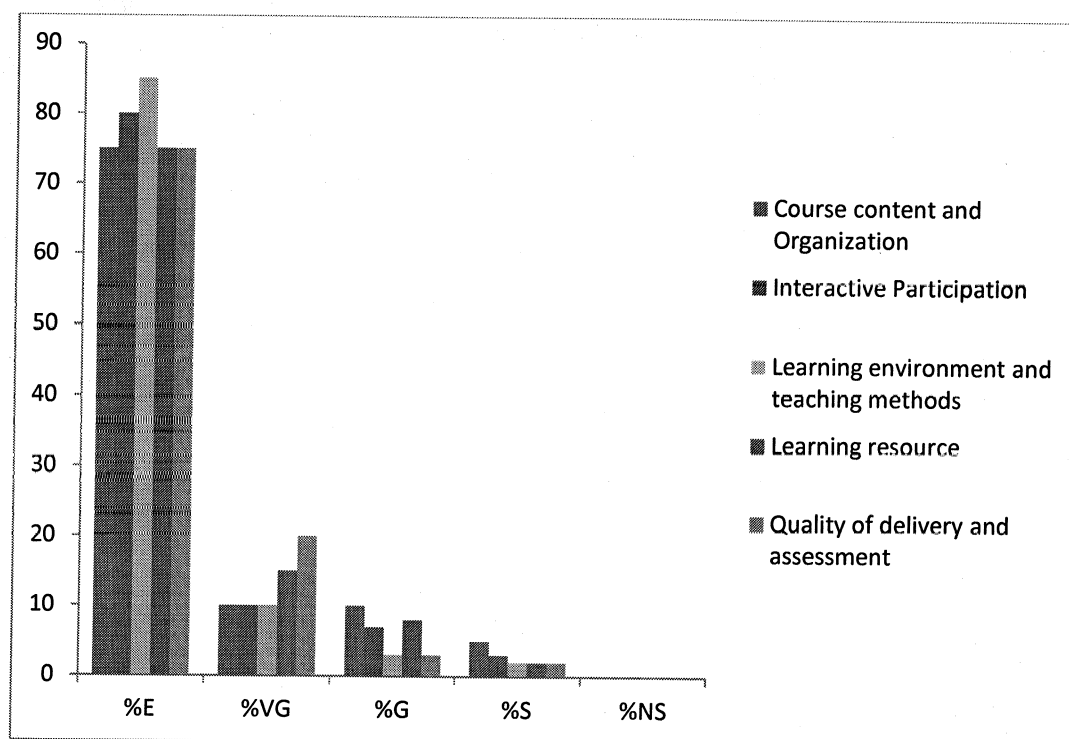
DEPARTMENT OF BIOTECHNOLOGY

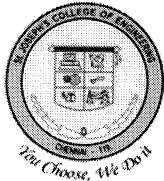
Curriculum Feedback Analysis by Students

ACADEMIC YEAR 2017-2018

CORE QUESTIONS	%E	%VG	%G	%S	%NS
Course content and Organization	75	10	10	5	0
Interactive Participation	80	10	7	3	0
Learning environment and teaching methods	85	10	3	2	0
Learning resource	75	15	8	2	0
Quality of delivery and assessment	75	20	3	2	0

%E -Excellent %VG- Very Good % G- Good %S-Satisfactory %NS – Not Satisfactory





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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. Totally 174 students gave their feedback on curriculum for the academic year 2017-2018. 75% 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. 80% of the students strongly agreed that the interaction by teachers with students are more feasible and reliable. Around 85% 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 75% 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

- Changes in assessment methods was implemented through Internal Assessment Exam
- Learning environment and practical labs are good
- Mini projects should be made compulsory

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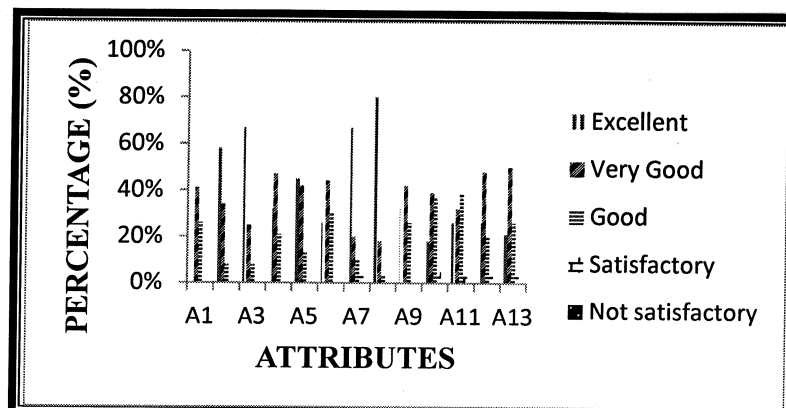
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DEPARTMENT OF BIOTECHNOLOGY

Teacher's Feedback On Curriculum - Analysis

Academic Year: 2017-2018

Grade in Percentage : 5-Excellent, 4-Very Good, 3- Good, 2- Satisfactory, 1- Not satisfactory						
S. No	Attributes	5	4	3	2	1
1.	Curriculum is based on the needs of the stakeholders	33	41	26	0	0
2.	Course objectives and Outcomes of the course are well defined and clear to faculty and students	58	34	8	0	0
3.	Sufficient number of prescribed books are available in the library	67	25	8	0	0
4.	The course has good balance between theory and application.	32	47	21	0	0
5.	The course has made me interested in the subject area.	45	42	13	0	0
6.	The course has increased knowledge potential in its application	26	44	30	0	0
7.	Book facilities and other amenities like projectors, software's etc., are available in the department	67	20	10	3	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.	80	18	3	0	0
9.	I have the freedom to adopt new techniques of teaching such as seminar presentations, group discussions, demonstration and student's participations.	32	42	26	0	0
10.	Syllabus contain necessary technical skills for the students to face the industry needs	18	39	37	5	0
11.	The electives offered are relevant to the specialization streams and to the technological advancements.	26	32	39	3	0
12.	The laboratory experiments enhance the students in understanding the concepts and enable them to relate theory to practice (Experiential learning).	26	48	20	5	0
13.	Facilities are provided for teaching and to adopt current trends / research.	21	50	26	3	0





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Teacher's Feedback On Curriculum - Report

Academic Year: 2017-2018

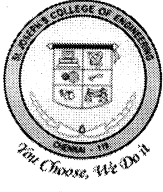
The College has made it a practice to conduct all faculty meeting, once in the starting of the semester, where the ways and means of enhancing the curriculum, academic discipline, Teaching Learning process and Research and Extension activities are discussed. During such meetings, the individual faculty 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:

- Coverage of medical biotechnology and bioinformatics tools pertaining lab was included in R-2017
- Online certification courses was taken by students
- Online and NPTEL video lectures was used in regular course delivery

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DEPARTMENT OF BIOTECHNOLOGY

Student Exit Survey Analysis

ACADEMIC YEAR: 2017-2018

Batch 2014-2018

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	3	0	0
5.	Skills of communication and Team work	1	3	2	0	0
6.	Knowledge updating and self learning ability towards sustained employability	1	2	3	0	0
Total		6	11	18	0	0

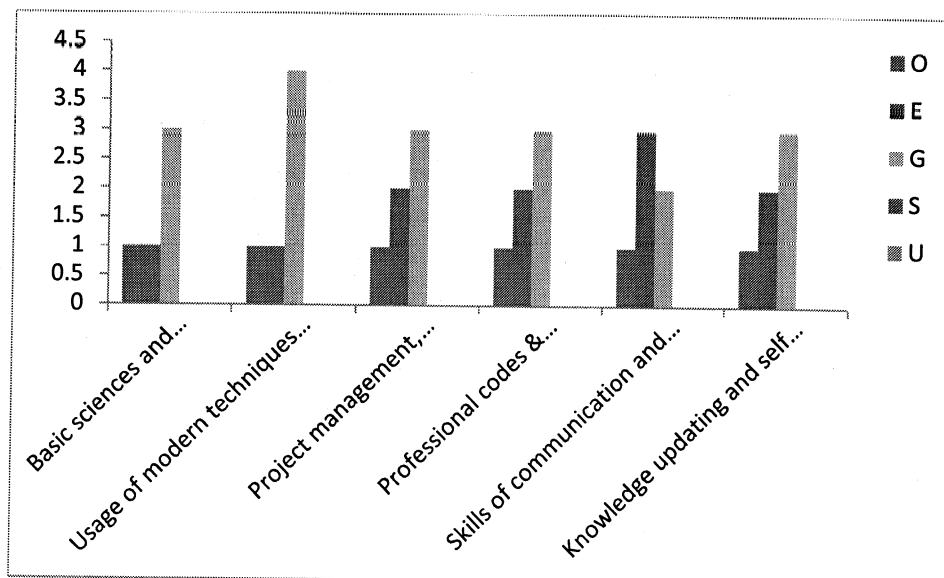
O - Outstanding

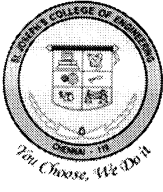
E - Excellent

G - Good

S - Satisfactory

U - Unable to judge





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DEPARTMENT OF BIOTECHNOLOGY

Student Exit Survey Report

ACADEMIC YEAR: 2017-2018

Batch 2014-2018

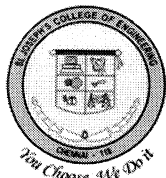
Strength

- Entrepreneur development cell program are conducted regularly
- Coverage of medical biotechnology and bioinformatics tools pertaining lab was included in R-2017

Weakness

- Additional number of in plant training could improve the technical skills of students
- Career guidance for Civil service and banking service are needed


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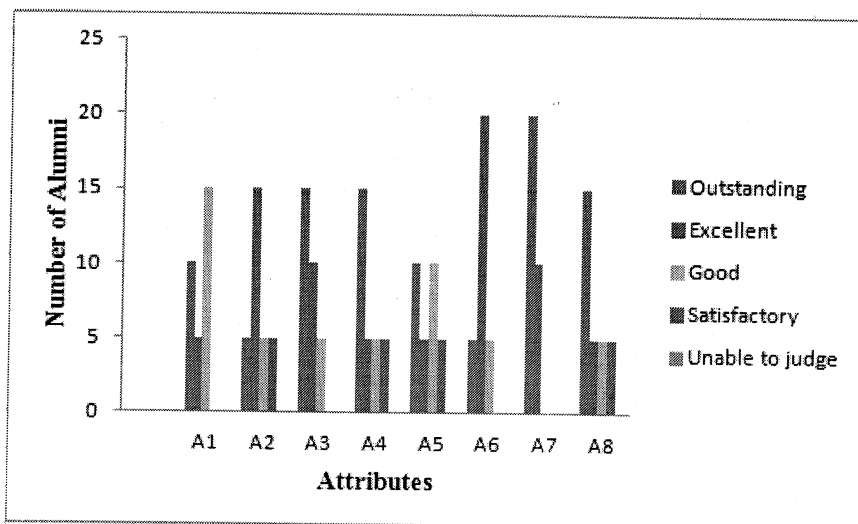
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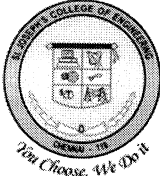
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Alumni Feedback Analysis

Academic Year: 2017-18

S.No.	Attributes	Outstanding	Excellent	Good	Satisfactory	Unable to judge
1.	Basic sciences and Engineering fundamentals	10	5	15	0	0
2.	Usage of modern techniques in biotech processes	5	15	5	5	0
3.	Project management, Commercialization & social application	15	10	5	0	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	20	5	0	0
7.	Effectiveness of Higher studies guidance	20	10	0	0	0
8.	Ability to meet the current Industrial / Research challenges	15	5	5	5	0
Total		85	75	50	20	0





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Alumni Feedback Report

Academic Year: 2017-2018

Alumni feedback was obtained from nearly 30 alumni for the academic year 2017-2018. 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

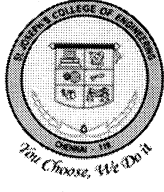
Weakness

1. Need more industry interaction.
2. Mini projects have to be included in the curriculum.

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.


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Employer Feedback Analysis and Report

ACADEMIC YEAR: 2017-2018

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	2	0	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	2	0	0	0

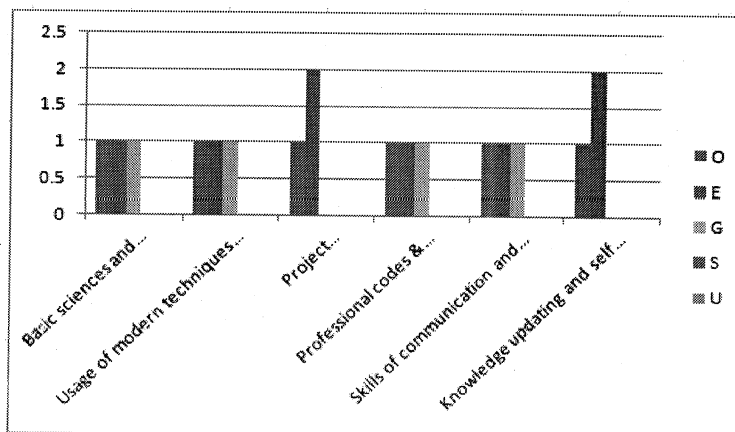
O - Outstanding

E -Excellent

G - Good

S - Satisfactory

U - Unable to judge

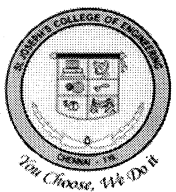


FEEDBACK

- Hands on training for cell lines related studies should be improved.
- Animal handling skills should be still improved.
- Modern tools and techniques usage related trainings should be given to students.


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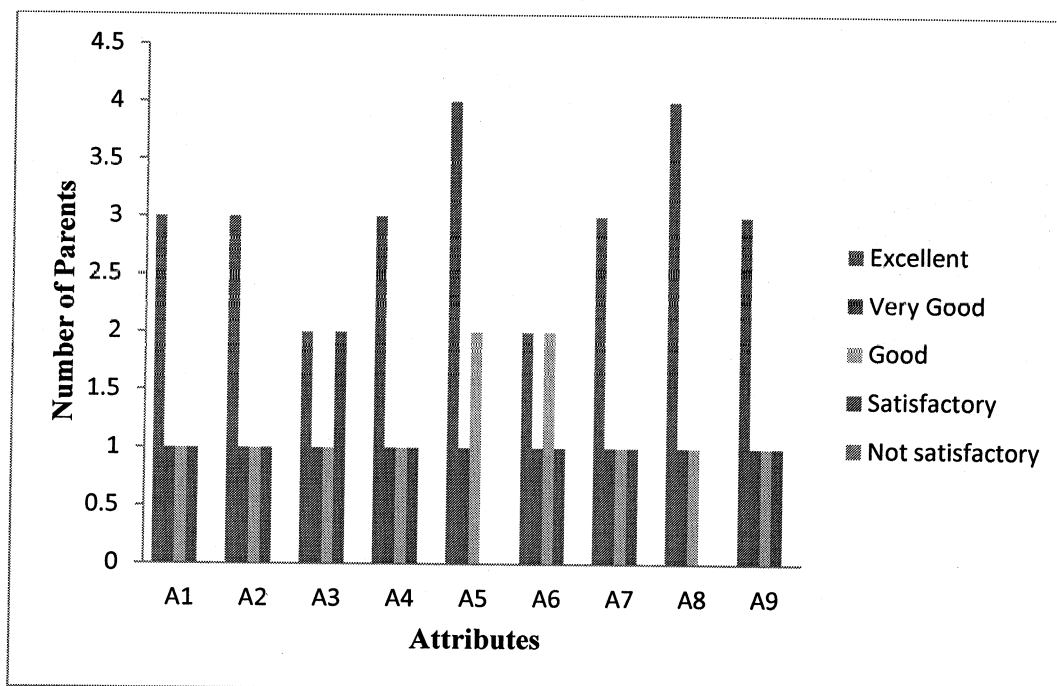
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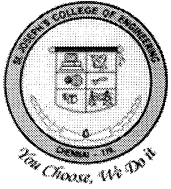
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Parents Feedback Analysis

ACADEMIC YEAR 2017-2018

S.No	Attributes	Excellent	Very Good	Good	Satisfactory	Not satisfactory
1.	Student's counselling and guidance in college	3	1	1	1	0
2.	Departmental Extra/Co-curricular activities	3	1	1	1	0
3.	Library/ Reading facility available	2	1	1	2	0
4.	Discipline in the college	3	1	1	1	0
5.	Mess facility	4	1	2	0	0
6.	Transport Facility	2	1	2	1	0
7.	Industrial exposure given by the department	3	1	1	1	0
8.	Training provided to appear for placement	4	1	1	0	0
9.	Guidance provided for higher studies	3	1	1	1	0
Total		27	9	12	8	0





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Parents Feedback Report

ACADEMIC YEAR 2017-2018

Feedback

Strength

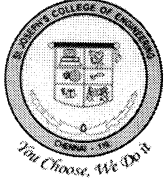
- Department level extracurricular was improved by conducting department level club activities
- National and International level Internship was undertaken by students

Weakness

- Need exposure to the core verticals of industry
- Required hands on session on advanced bioinformatics tools

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DEPARTMENT OF BIOTECHNOLOGY

Stakeholders Report on Institutional and Academic Evaluation

Academic Year: 2017-2018

S.No	Feed back	Action Taken by the Institute
1.	Additional number of in-plant training could improve our technical skills	Students were asked to utilize the semester holidays to attend the training
2.	Importance of e-journals Usage to be informed to the students	Establishment of e-Journal session in the library and separate timing has been allotted for the student access
3.	Career guidance for Civil service and banking service are needed	Career guidance and respective initiatives had been taken for civil, Defense and other related Training
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 work in a team is to be insisted to the students	Team work importance is emphasized during the placement orientation program



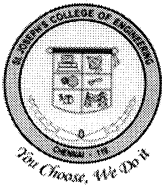
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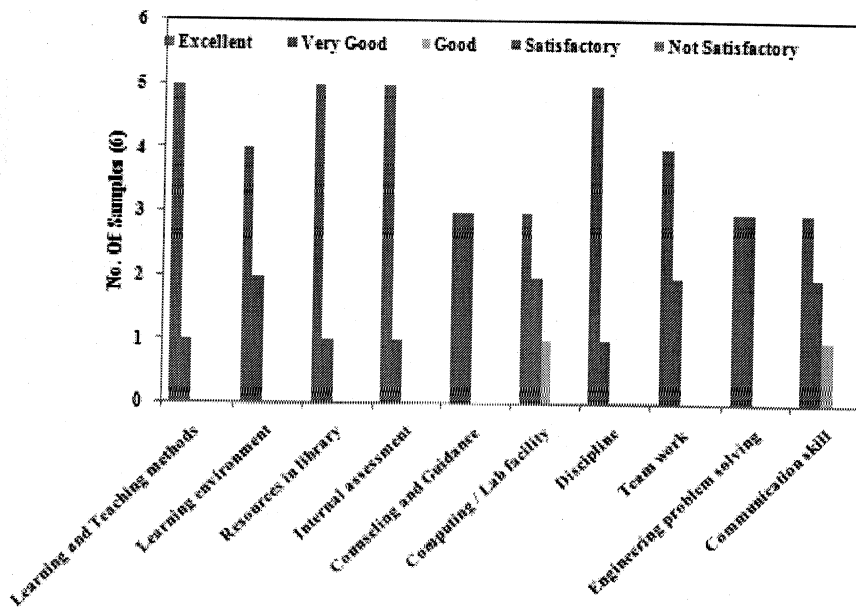
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Institution Feedback Analysis and Report

Academic Year: 2017-2018

S. No	Parameters	Excellent	Very Good	Good	Satisfactory	Not Satisfactory
1.	Learning and Teaching methods	5	1	0	0	0
2.	Learning environment	4	2	0	0	0
3.	Resources in library	5	1	0	0	0
4.	Internal assessment	5	1	0	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	4	2	0	0	0
9.	Engineering problem solving	3	3	0	0	0
10.	Communication skill	3	2	1	0	0

Academic year: 2017-18

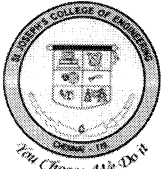


Feedback

- Coverage of medical biotechnology and bioinformatics tools pertaining lab was included in R-2017
- Upgraded teaching tools are been used in Learning and Teaching methods
- Importance of e-journals usage to be educated to students
- Career guidance for Civil service and banking service are needed
- Mini projects are to be made compulsory at the end of the 6th semester to support placement

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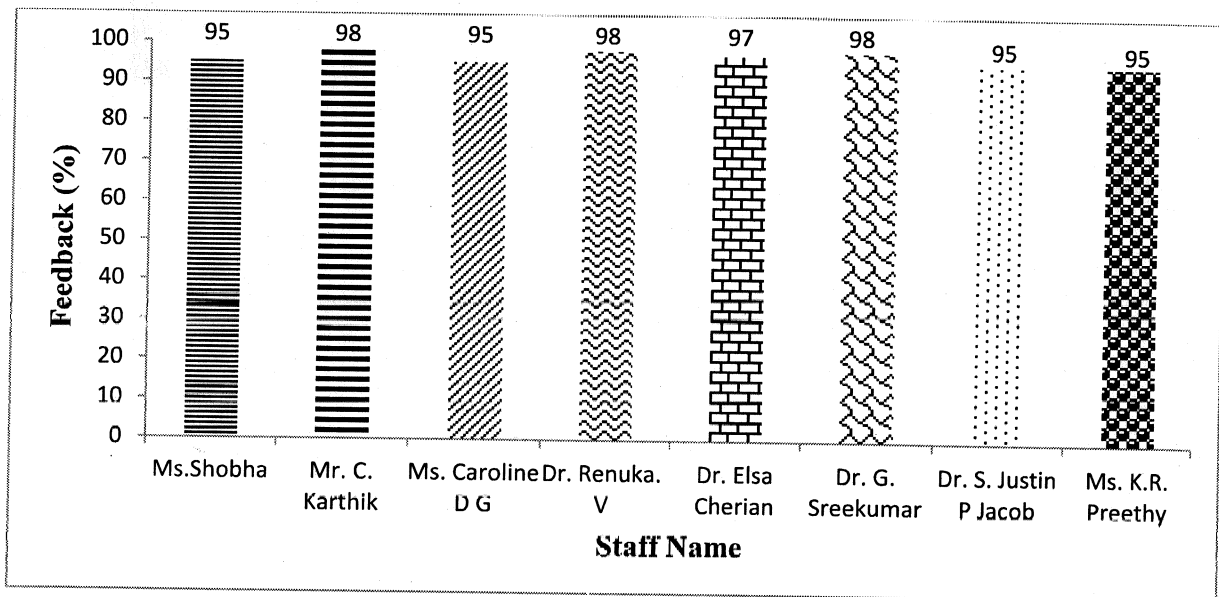
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DEPARTMENT OF BIOTECHNOLOGY

Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2017- 2018 - EVEN SEMESTER
III YEAR / VI SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT6601	Total Quality Management for Biotechnologist	Dr. G. Sreekumar Ms. B.Sangeetha	98/96
BT6602	Immunology	Dr. L. F. A. Anandraj	97
BT6603	Genetic Engineering and Genomics	Dr. M.Chamundeeswari	96
BT6604	Chemical Reaction Engineering	Ms.G.Kalavathy	95
BT6007	Animal Biotechnology	Dr.Elsa Cherian	96
BT6604	Plant Biotechnology	Dr. S. Justin P Jacob Ms. K.R. Preethy	95/95

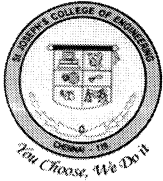


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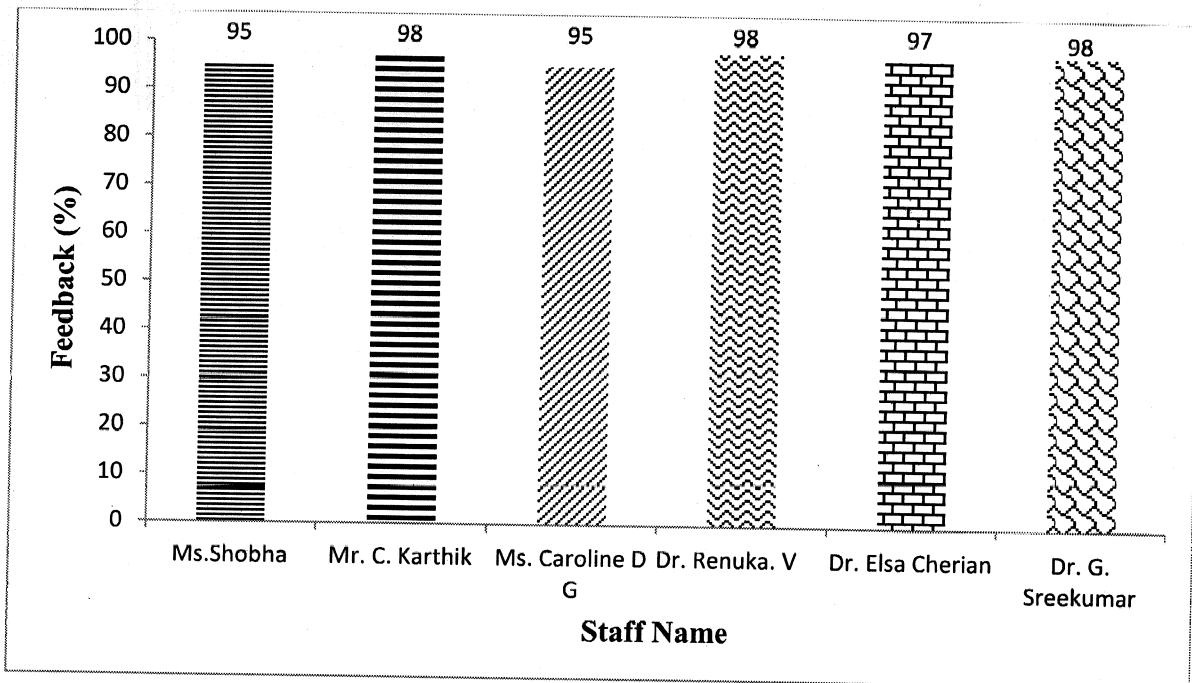
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DEPARTMENT OF BIOTECHNOLOGY

Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2017- 2018 - EVEN SEMESTER
II YEAR / IV SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
MA6468	Probability and Statistics	Ms.Shobha	95
BT6401	Analytical Methods And Instrumentation	Mr. C. Karthik	98
BT6402	Applied Thermodynamics For Biotechnologists	Ms. Caroline D G	95
BT6403	Heat Transfer Operations	Dr. Renuka. V	98
BT6404	Enzyme Technology And Biotransformation	Dr. Elsa Cherian	97
BT6405	Bioprocess Principles	Dr. G. Sreekumar	98

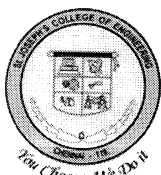



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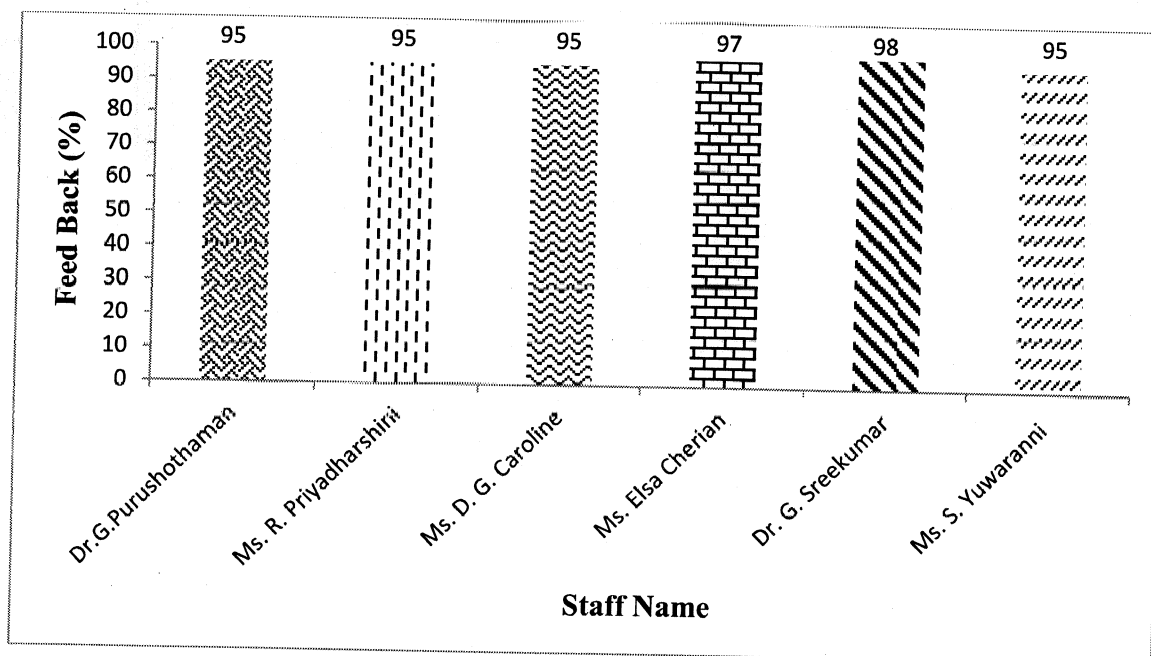
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ACADEMIC YEAR 2017- 2018 - ODD SEMESTER
II YEAR / III SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
MA6351	Transforms and Partial Diff. Equations	Dr.G.Purushothaman	95
BT6301	Stoichiometry and Fluid Mechanics	Ms. R. Priyadharshini	95
BT6302	Bioorganic Chemistry	Ms. D. G. Caroline	95
BT6303	Cell Biology	Ms. Elsa Cherian	97
BT6304	Basic Industrial Biotechnology	Dr. G. Sreekumar	98
GE6351	Environmental Science and Engg.	Ms. S. Yuwaranni	95

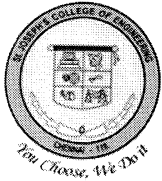


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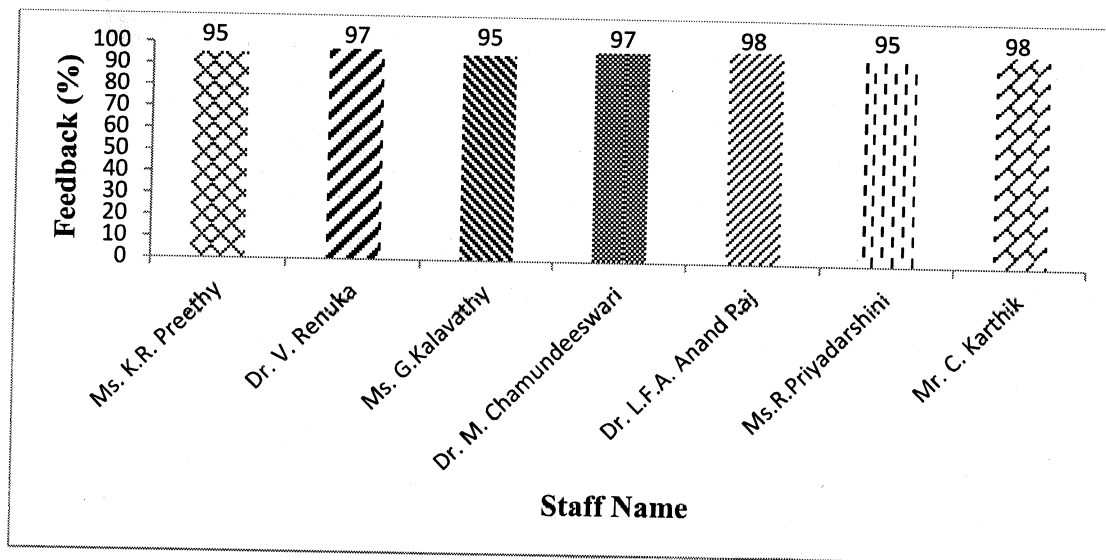
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ACADEMIC YEAR 2017- 2018 - ODD SEMESTER III YEAR / V SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT6501	Protein Structure Function and Proteomics	Ms. K.R. Preethy	95
BT6502	Bioprocess Engineering	Dr. V. Renuka	97
BT6503	Mass Transfer Operation	Ms. G.Kalavathy	95
BT6504	Molecular Biology	Dr. M. Chamundeeswari	97
BT6003	Elective – I: Principles of Food Process	Dr. L.F.A. Anand Raj Ms.R.Priyadarshini	98
BT6006	Elective – II: Biopharmaceutical Tech.	Mr. C. Karthik	98

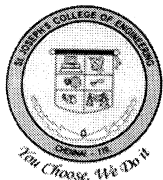



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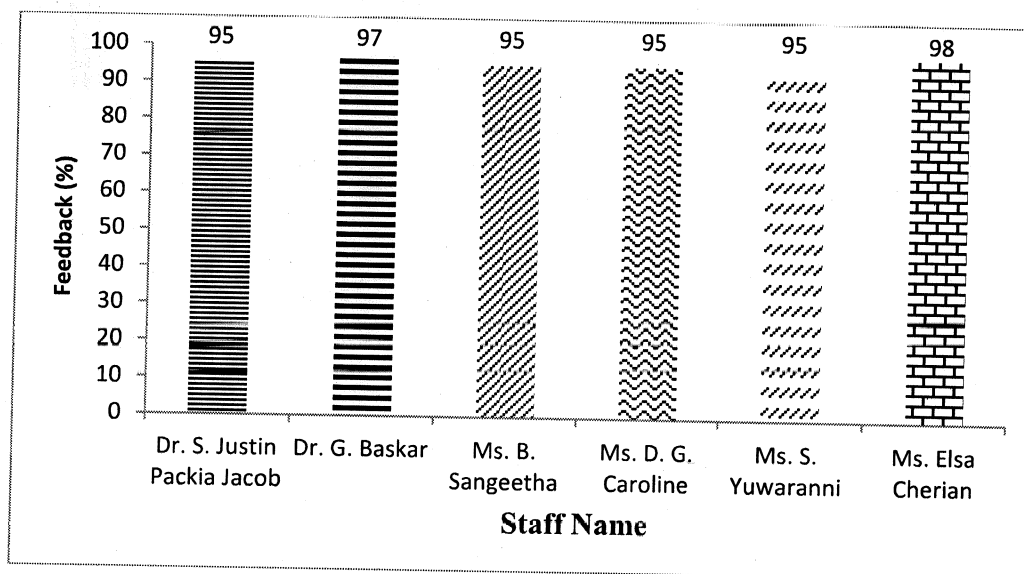
Chennai -600 119

DEPARTMENT OF BIOTECHNOLOGY

Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2017- 2018 - 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	95
BT6702	Downstream Processing	Dr. G. Baskar	97
BT6703	Creativity, Innovation and New Product Development	Ms. B. Sangeetha	95
BT6014	Bio Industrial Entrepreneurship	Ms. D. G. Caroline Ms. S. Yuwaranni	95/95
BT6017	Tissue Engineering	Ms. Elsa Cherian	98



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HOD

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

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