

St. JOSEPH'S COLLEGE OF ENGINEERING

(St. Joseph's Group of Institutions)

Chennai -600 119

DEPARTMENT OF BIOTECHNOLOGY

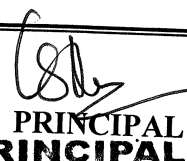
Stakeholder's Feedback on Curriculum and Actions Taken

ACADEMIC YEAR 2016-2017

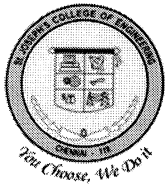
S.No	Stake holders	Feed back	Action Taken by the Institute
1.	Student	Syllabus should include practical based approach	The practical based approach is implemented for some of the subjects by our staff members through special workshops.
2.	Staff	Internship must be encouraged	Students advised to take up internship programs during vacations.
3.	Parent	Need training in Personal development and communication skills	The students weak in communication skills are identified and special programs are conducted for them.
4.	Alumni	Hands on training for monoclonal antibody and PCR techniques to be included	VAC on PCR techniques was conducted
5.	Employer	Training on basic skills in the core field to be improvised	Separate session during placement training program was allotted for the department specific technical discussion


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Head of the Department
Department of Biotechnology
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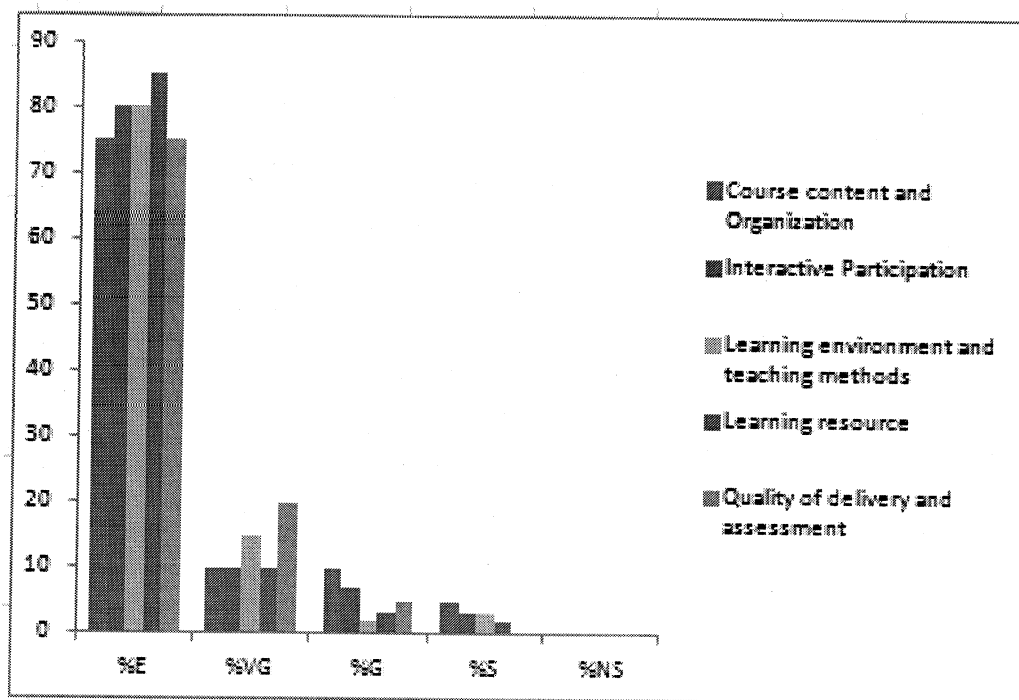


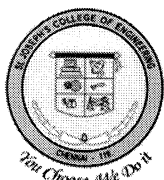
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Curriculum Feedback Analysis by Students

ACADEMIC YEAR 2016-2017

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	80	15	2	3	0
Learning resource	85	10	3	2	0
Quality of delivery and assessment	75	20	5	0	0

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





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Curriculum Feedback Report by Students

Student's 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 181 students gave their feedback on curriculum for the academic year 2016-2017. 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 80% of the students agreed that they are equipped with necessary teaching methods required for their programme. It is observed that 85% 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

- Practical exposure of additional topic was provided through industrial visits
- It is reported by the students that the teaching methods are more practical.
- Changes in assessment methods could be focused


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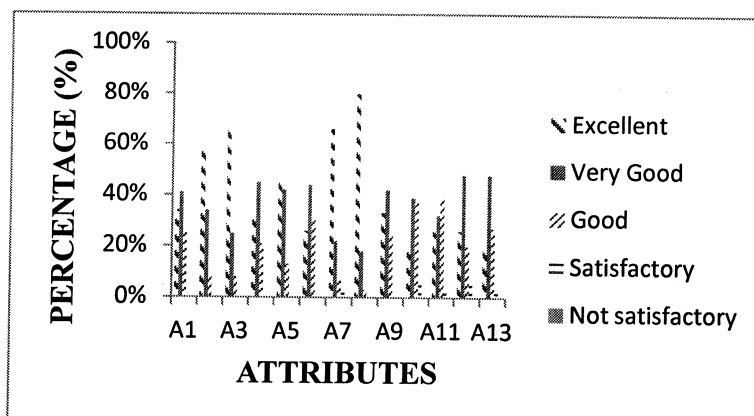
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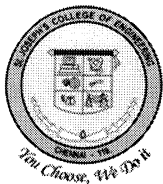
DEPARTMENT OF BIOTECHNOLOGY

Teacher's Feedback on Curriculum - Analysis

Academic Year: 2016-2017

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	34	41	25	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	45	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	66	22	7	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.	33	42	25	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	48	27	4	0





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DEPARTMENT OF BIOTECHNOLOGY
Teacher's Feedback on Curriculum - Report

Academic Year: 2016-2017

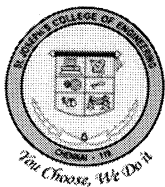
The College has made it a practice to conduct all faculty meeting, once in the starting of the semester, where the ways and means of enhancing the curriculum, academic discipline, Teaching Learning process and Research and Extension activities are discussed. During such meetings, the individual faculty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

- Text and reference books are sufficiently available in library
- Inclusion of subjects such as medical biotechnology and upgraded bioinformatics tools were requested

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Student Exit Survey Analysis

ACADEMIC YEAR: 2016-2017

Batch 2013-2017

S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	2	2	2	0	0
2.	Usage of modern techniques in biotech processes	1	2	3	0	0
3.	Project management, Commercialization & social application	1	3	2	0	0
4.	Professional codes & Bioethical practices	2	1	3	0	0
5.	Skills of communication and Team work	1	2	3	0	0
6.	Knowledge updating and self learning ability towards sustained employability	1	2	3	0	0
Total		8	12	16	0	0

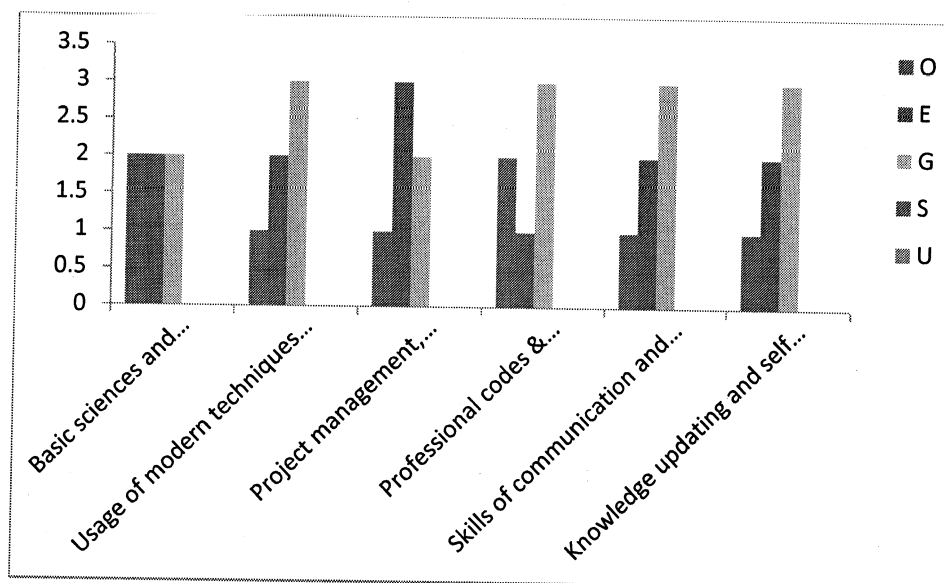
O - Outstanding

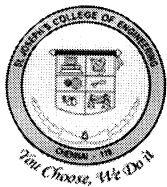
E - Excellent

G - Good

S - Satisfactory

U - Unable to judge





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DEPARTMENT OF BIOTECHNOLOGY

Student Exit Survey Report

ACADEMIC YEAR 2016-2017

Batch 2013-2017

Strength

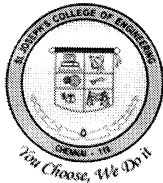
- Sophisticated instrument operation related training has been to satisfy the curriculum industrial need

Weakness

- Syllabus could have more practical oriented subjects
- Skills related suiting to the Industry to be included in the curriculum

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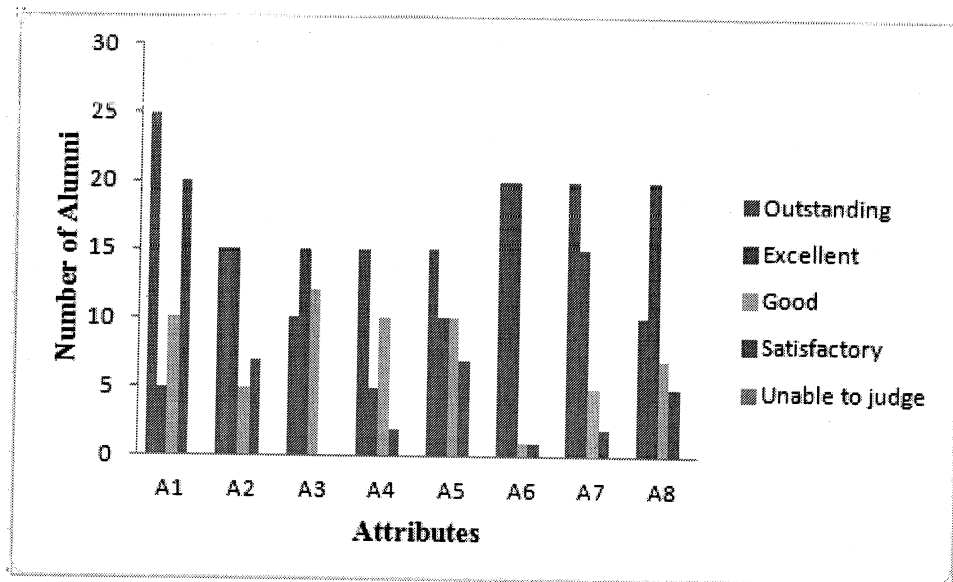
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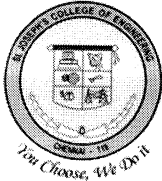
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Alumni Feedback Analysis

Academic Year: 2016-2017

S.No.	Attributes	Outstanding	Excellent	Good	Satisfactory	Unable to judge
1.	Basic sciences and Engineering fundamentals	25	5	10	2	0
2.	Usage of modern techniques in biotech processes	15	15	5	7	0
3.	Project management, Commercialization & social application	10	15	12	0	0
4.	Professional codes & Bioethical practices	15	5	10	2	0
5.	Skills of Communication and Team work	15	10	10	7	0
6.	Effectiveness of Placement enhancement programs	20	20	1	1	0
7.	Effectiveness of Higher studies guidance	20	15	5	2	0
8.	Ability to meet the current Industrial / Research challenges	10	20	7	5	0
Total		130	105	60	26	0





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Alumni Feedback Report

Academic Year: 2016-2017

Alumni feedback was obtained from nearly 42 alumni for the academic year 2016-2017. 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 most 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. Good exposure is provided towards Biotech industrial associated program.
2. Faculties take effective care for improving student's education.

Weakness

- Entrepreneurship related should be conducted

Feedback analysis report

- Usage of modern techniques and tools related seminars and workshops were satisfactorily conducted in processes

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Employer Feedback Analysis and Report

ACADEMIC YEAR: 2016-2017

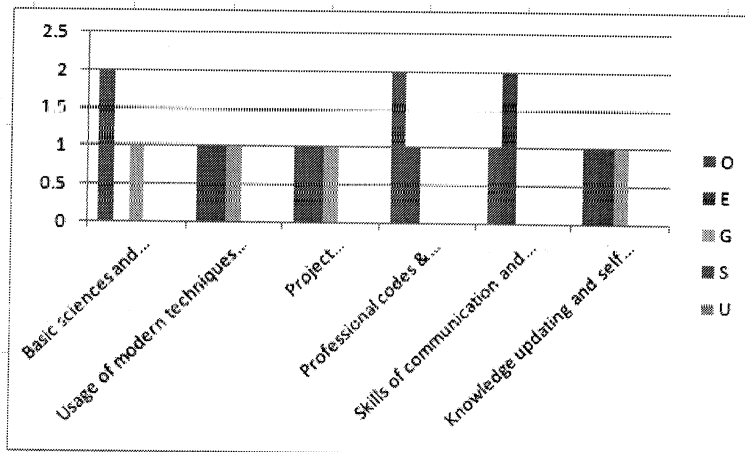
S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	2	0	1	0	0
2.	Usage of modern techniques in biotech processes	1	1	1	0	0
3.	Project management, Commercialization & social application	1	1	1	0	0
4.	Professional codes & Bioethical practices	2	1	0	0	0
5.	Skills of communication and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

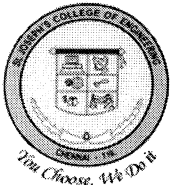


FEEDBACK

- Food Technology related mini projects can also be allotted to students to provoke entrepreneurship.
- Students have sound knowledge in usage of online Bioinformatics tools
- Sophisticated instruments operation training should be given to the students to improve their operational skills


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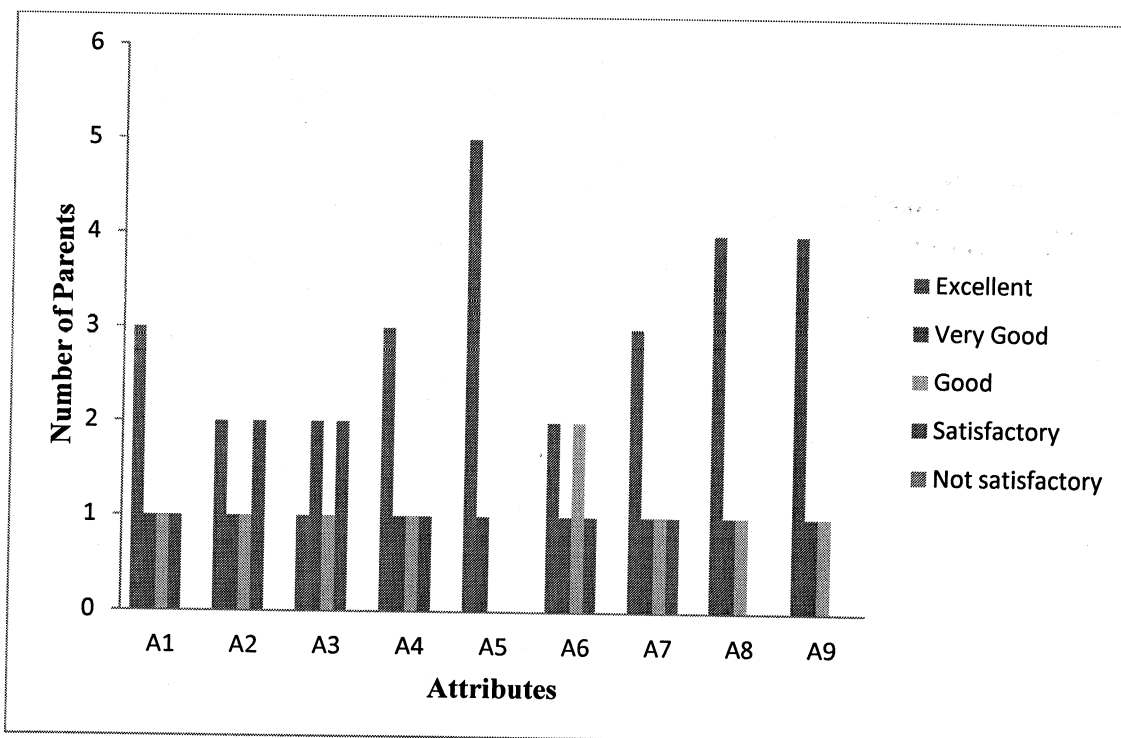
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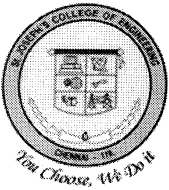
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Parents Feedback Analysis

ACADEMIC YEAR 2016-2017

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	2	1	1	2	0
3.	Library/ Reading facility available	1	2	1	2	0
4.	Discipline in the college	3	1	1	1	0
5.	Mess facility	5	1	0	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	4	1	1	0	0
Total		27	10	9	8	0





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Parents Feedback Report

ACADEMIC YEAR 2016-2017

Feedbacks

Strength

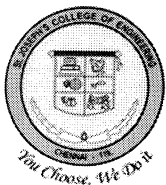
- Core Industrial placement was exposure was arranged
- Research-based learning was improve through mini projects
- Personality development and communication skills related programs was conducted

Weakness

- Department level extracurricular could be encouraged more
- Internship must be encouraged

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Department of Biotechnology
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DEPARTMENT OF BIOTECHNOLOGY

Stakeholders Report on Institutional and Academic Evaluation

Academic Year: 2016-2017

S.No	Feed back	Action Taken by the Institute
1.	Syllabus could have more practical oriented subjects	Discussion about the curriculum was done in BOS
2.	Encouragement of students to learn more reference books for updating their knowledge	Students had been instructed to refer books in library and journal to update their knowledge in the latest technologies
3.	Core industry placement to be improved	Arrangements have been made by placement cell to invite core companies for placement
4.	Skills related suiting to the Industry to be included in the curriculum	The implementation of industry related course such as Bioinformatics and its tools has been discussed in Board of studies and included as curriculum in the 2017 Regulation
5.	The syllabus needs to be updated and newer courses should be introduced to meet the growing academic demand and meet the industry requirement	The curriculum has been revised in board of studies and industrial required syllabus been proposed

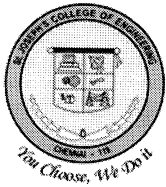
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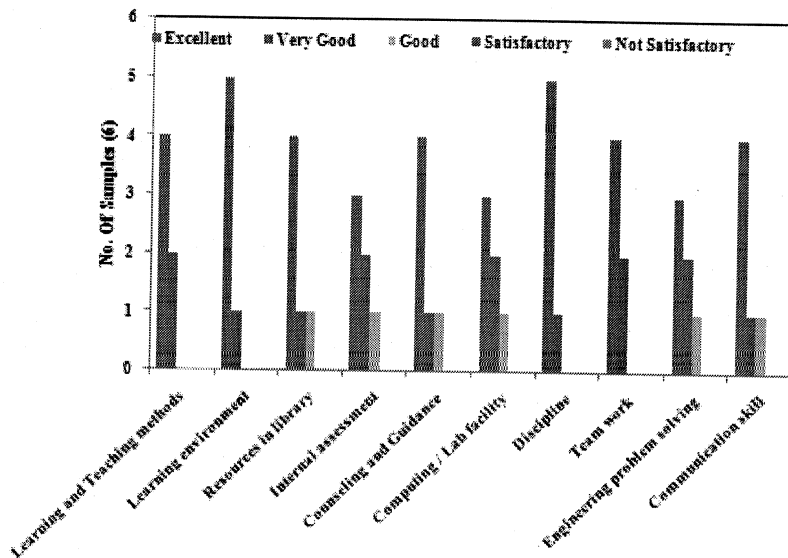
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Institution Feedback Analysis and Report

Academic Year: 2016-2017

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

Academic year: 2016-17

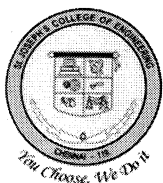


Feedback

- Modern tools usage importance was provided
- Core industry placement was improved
- Encouragement of students to learn more reference books for updating their knowledge
- Importance of ability to work in a team is to be insisted to the students
- The syllabus needs to be updated and newer courses should be introduced to meet the growing academic demand and meet the industry requirement


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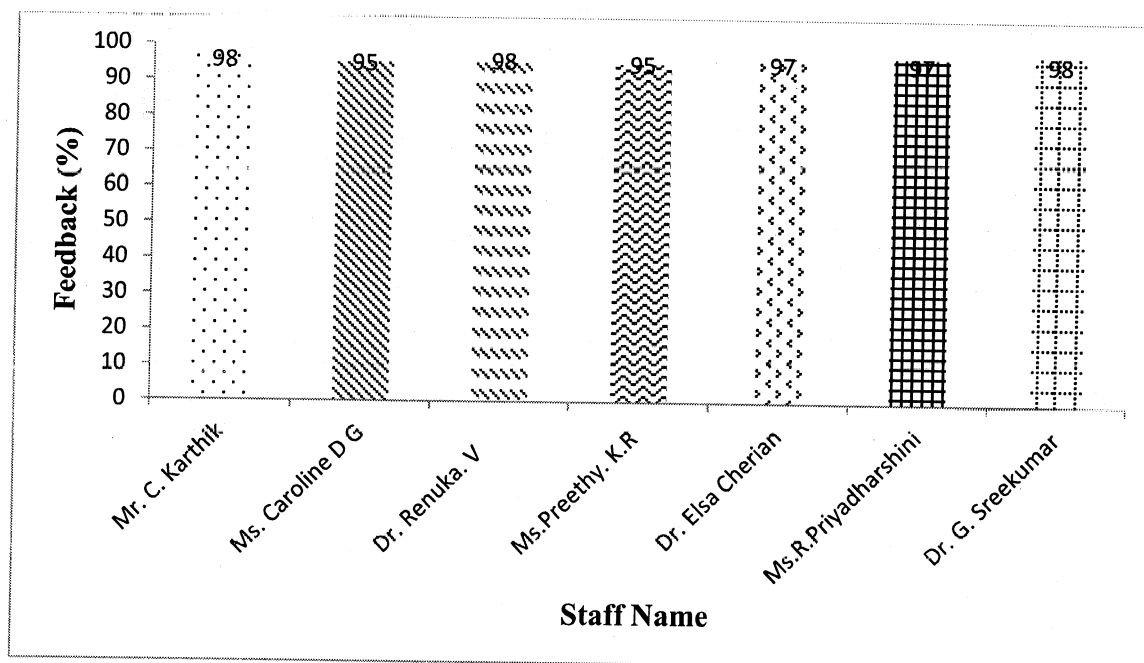
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Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2016 - 2017 - EVEN SEMESTER
II YEAR / IV SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
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 Ms.Preethy. K.R	98/95
BT6404	Enzyme Technology And Biotransformation	Dr. Elsa Cherian Ms.R.Priyadharshini	97
BT6405	Bioprocess Principles	Dr. G. Sreekumar	98

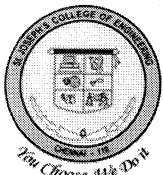



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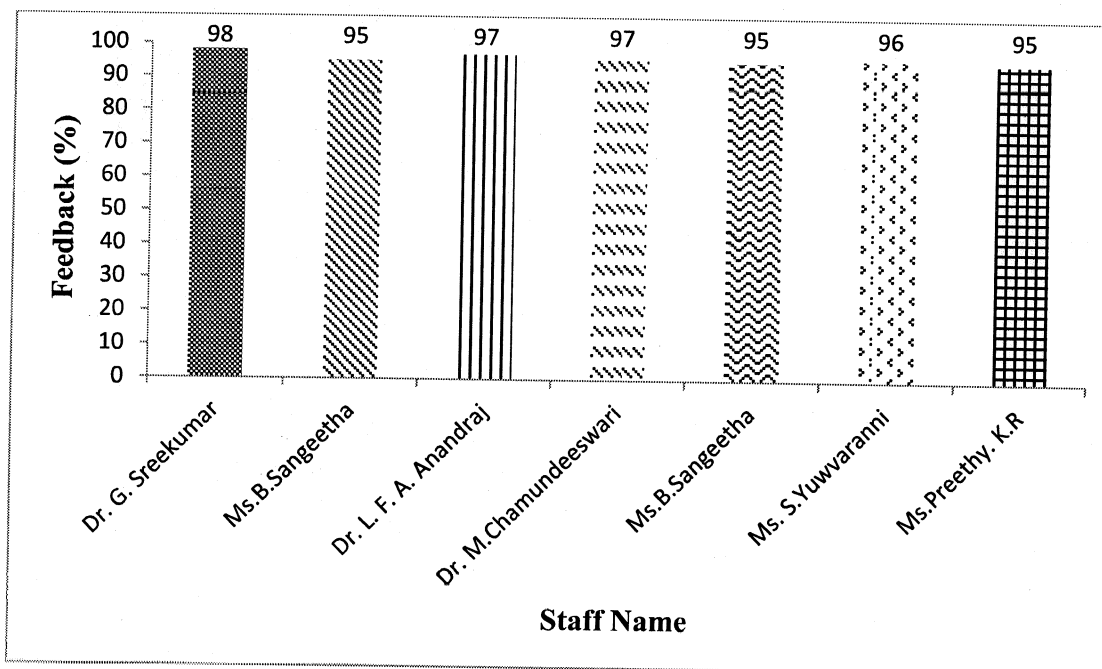
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ACADEMIC YEAR 2016 - 2017 - EVEN SEMESTER

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	98/95
BT6602	Immunology	Dr. L. F. A. Anandraj	97
BT6603	Genetic Engineering and Genomics	Dr. M.Chamundeewari	97
BT6604	Chemical Reaction Engineering	Ms.B.Sangeetha	95
BT6007	Animal Biotechnology	Ms. S.Yuwvaranni	96
BT6604	Plant Biotechnology	Ms.Preethy. K.R	95

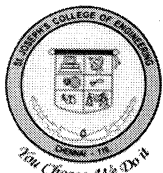



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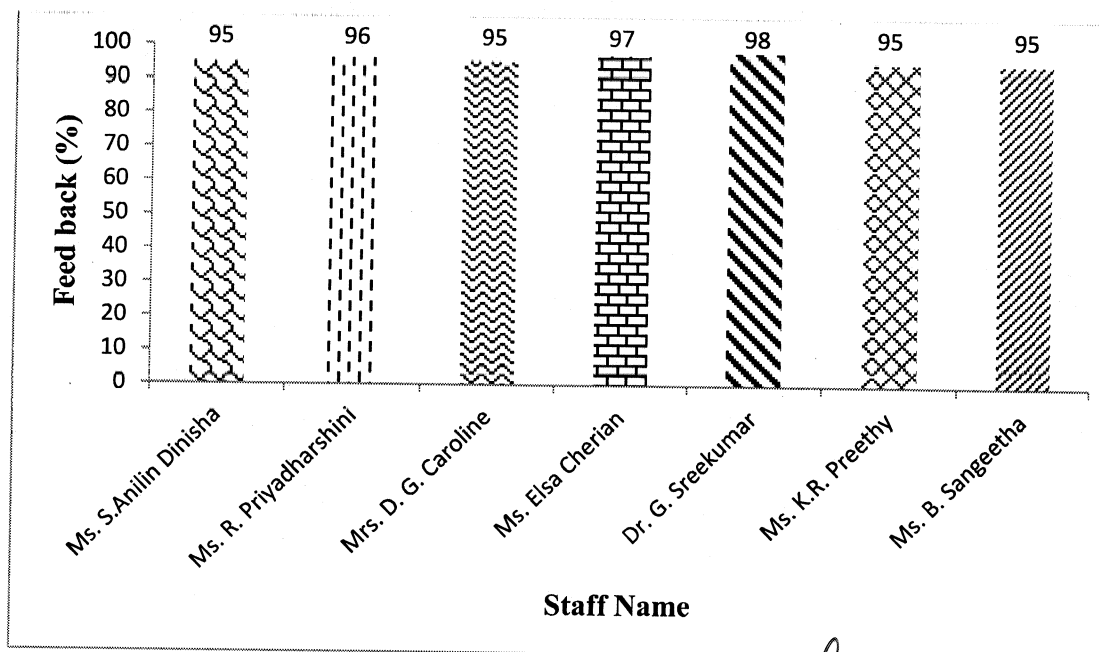
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ACADEMIC YEAR 2016 - 2017 - ODD SEMESTER
II YEAR / III SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
MA6351	Transforms and Partial Diff. Equations	Ms. S.Anilin Dinisha	95
BT6301	Stoichiometry and Fluid Mechanics	Ms. R. Priyadharshini	96
BT6302	Bioorganic Chemistry	Mrs. 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. K.R. Preethy Ms. B. Sangeetha	95/95



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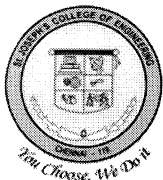
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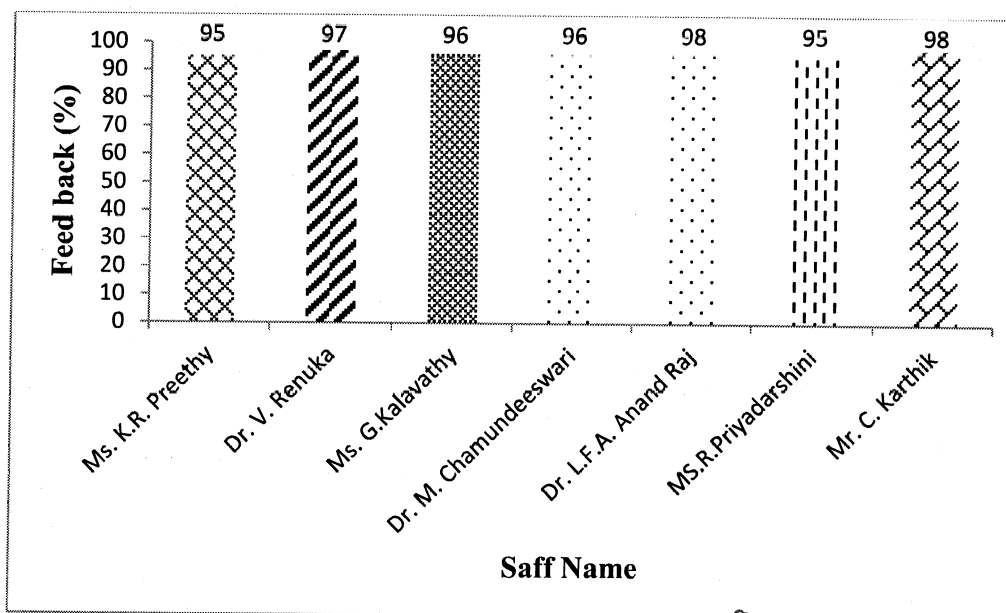
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ACADEMIC YEAR 2016 - 2017 - ODD SEMESTER III YEAR / V SEM

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	96
BT6504	Molecular Biology	Dr. M. Chamundeeswari	96
BT6003	Elective – I: Principles of Food Process	Dr. L.F.A. Anand Raj MS.R.Priyadarshini	98/95
BT6006	Elective – II: Biopharmaceutical Tech.	Mr. C. Karthik	98

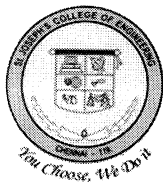


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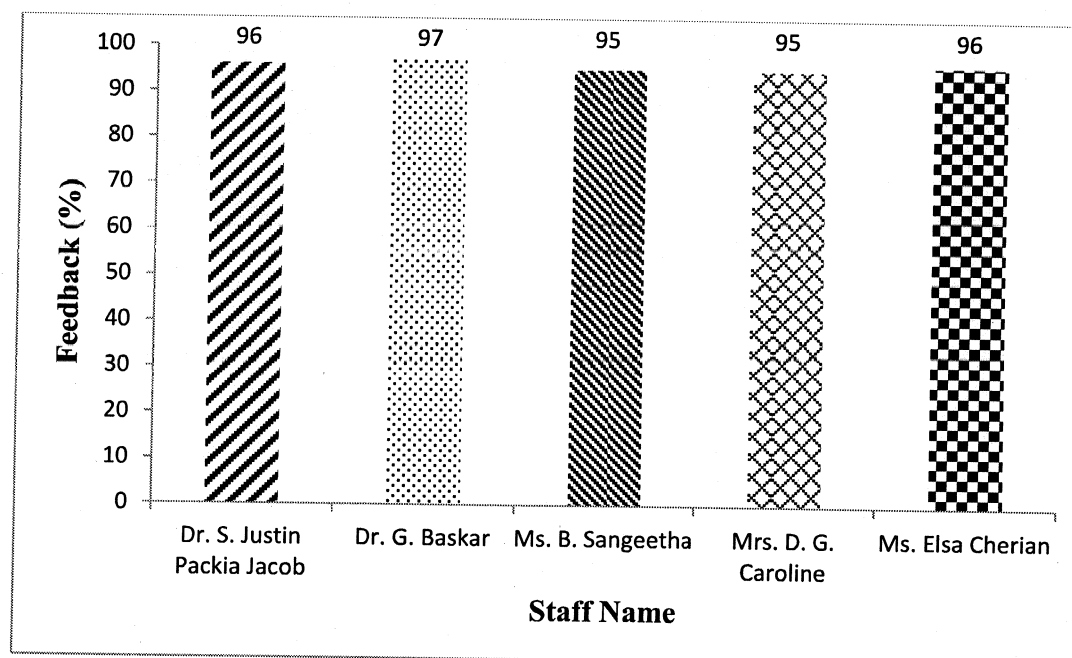
Chennai -600 119

DEPARTMENT OF BIOTECHNOLOGY

Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2016 - 2017 - 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	96
BT6702	Downstream Processing	Dr. G. Baskar	97
BT6703	Creativity, Innovation and New Product Development	Ms. B. Sangeetha	95
BT6014	Bio Industrial Entrepreneurship	Mrs. D. G. Caroline	95
BT6017	Tissue Engineering	Ms. Elsa Cherian	96




HOD

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



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[A CHRISTIAN MINORITY INSTITUTION]
JEPPIAAR EDUCATIONAL TRUST,
OLD MAMALLAPURAM ROAD,
CHENNAI-600 119.