

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 2015-2016

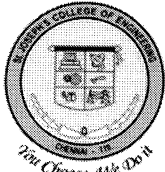
S.No	Stake holders	Feed back	Action Taken by the Institute
1.	Student	Syllabus should include practical based approach	Students are advised to take up mini projects in the field to have more exposure
2.	Staff	Couse objective need to be more aligned to meet program outcome	Each course Co Po Mapping as been done in each course
3.	Parent	syllabus could be more oriented toward the current needs of the biotech industry	Syllabus including subjects were proposed to meet the needs of current requirement of the industry
4.	Alumni	Need more focus on industry interaction.	MOU's with Industries has been signed
5.	Employer	Effectiveness of curriculum in developing the innovative thinking to be ensured	It had been discussed in BOS and was ready to be implemented in R-2017


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Chennai - 600 119, India


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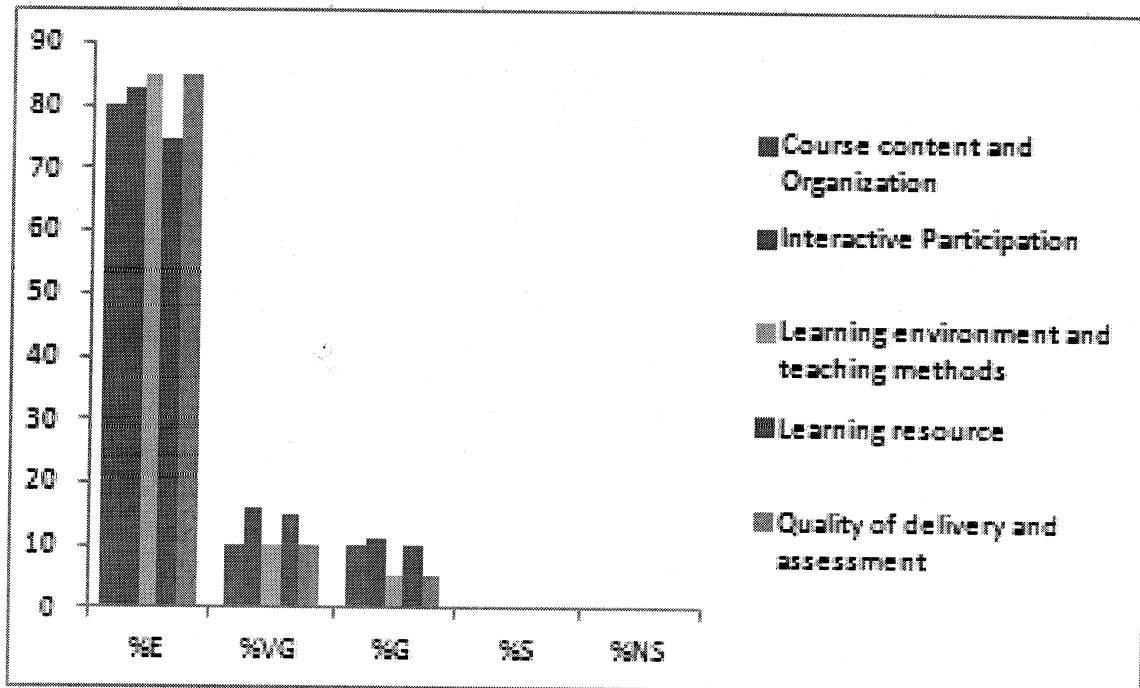
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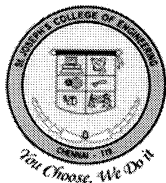
Curriculum Feedback Analysis by Students

ACADEMIC YEAR 2015-2016

CORE QUESTIONS	%E	%VG	%G	%S	%NS
Course content and Organization	80	10	10	0	0
Interactive Participation	83	16	11	0	0
Learning environment and teaching methods	85	10	5	0	0
Learning resource	75	15	10	0	0
Quality of delivery and assessment	85	10	5	0	0

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





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Curriculum Feedback Report by Students

Students Feedback on Curriculum

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 192 students gave their feedback on curriculum for the academic year 2015-2016. 80% 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. 83% 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 85% 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

- Students are satisfied with the current learning and teaching methods provided
- Guidelines for online certification course can be given for the students
- Additional topics related to recent trends in the course can be included

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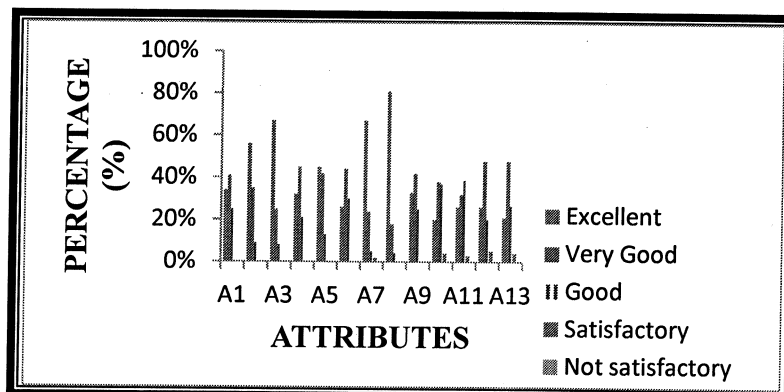
DEPARTMENT OF BIOTECHNOLOGY

Teacher's Feedback on Curriculum - Analysis

Academic Year: 2015 - 2016

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 stake holders	34	41	25	0	0
2.	Course objectives and Outcomes of the course are well defined and clear to faculty and students	56	35	9	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, softwares etc., are available in the department	67	24	5	2	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.	81	18	4	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	20	38	37	4	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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Teacher's Feedback on Curriculum - Report

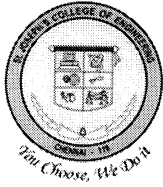
Academic Year: 2015 - 2016

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:

- Exposure to practical session was implemented by conducting Value Added Courses
- Usage of online bioinformatics tool applicability was included
- Entrepreneurship provoking through small scale Industrial visits was initiated


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Student Exit Survey Analysis

ACADEMIC YEAR: 2015-2016

Batch 2012-2016

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

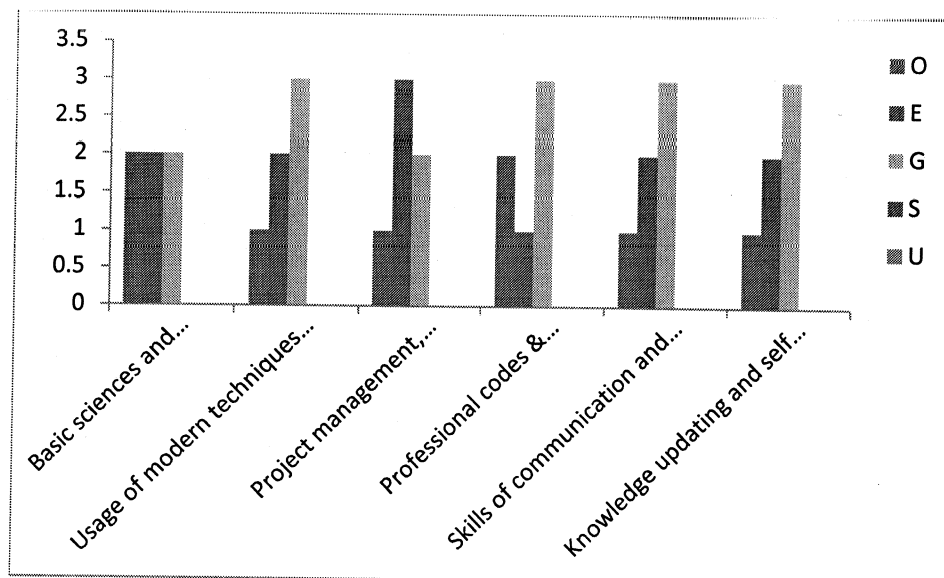
O - Outstanding

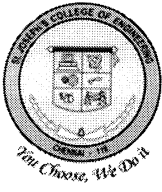
E - Excellent

G - Good

S - Satisfactory

U - Unable to judge





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Student Exit Survey Report

ACADEMIC YEAR: 2015-2016

Batch 2012-2016

Strength

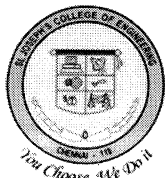
- Skills of communication and Team work Practices are good

Weakness

- Special coaching classes to be arranged for slow learners
- Unit wise internal assessment exams would be useful

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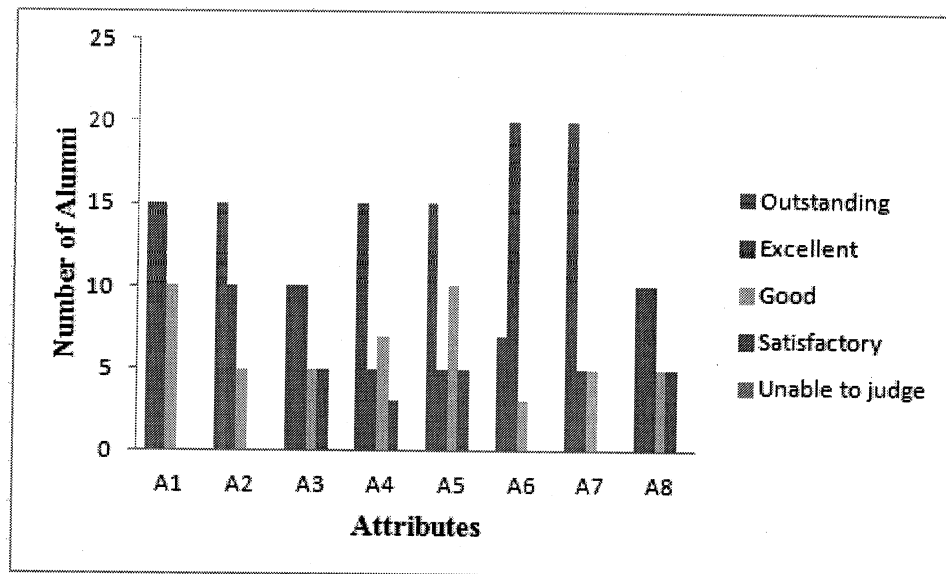
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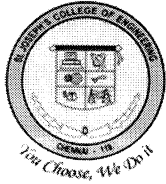
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Alumni Feedback Analysis

Academic Year: 2015-2016

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





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Alumni Feedback Report

Academic Year: 2015-2016

Alumni feedback was obtained from nearly 41 alumni for the academic year 2015-2016. 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

- Guidance in Higher studies are being provided by ABHS through good lectures

Weakness

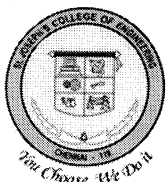
- Project guidance to the students could be initiate beginning of in third year

Feedback analysis report

- Usage of modern techniques and tools related seminars and workshops can be conducted biotech processes

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Employer Feedback Analysis and Report

ACADEMIC YEAR: 2015-2016

S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	2	1	0	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

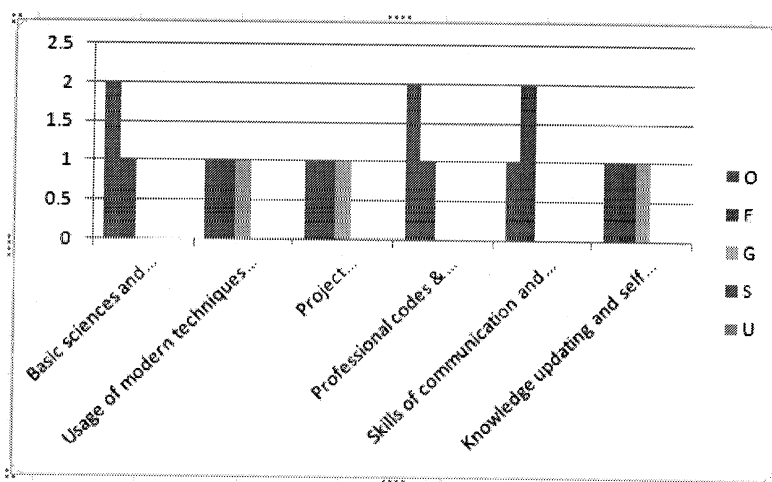
O - Outstanding

E -Excellent

G - Good

S - Satisfactory

U - Unable to judge

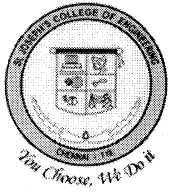


FEEDBACK

- Marine Biotechnology related practical applications can be included in the syllabus.
- Employability skills related mini project should be given.
- Basic instruments operation training skills can be given to students.


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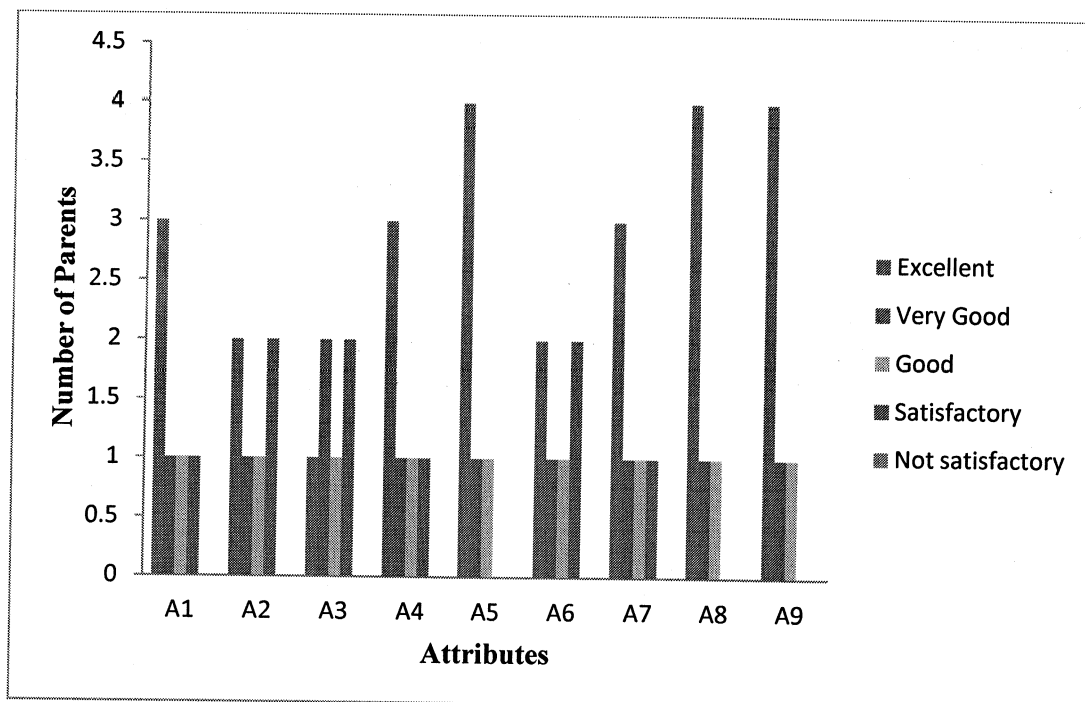
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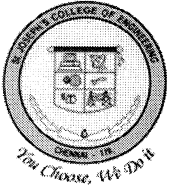
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Parents Feedback Analysis

ACADEMIC YEAR 2015-2016

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	4	1	1	0	0
6.	Transport Facility	2	1	1	2	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		26	10	9	9	0





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Parents Feedback Report

ACADEMIC YEAR 2015-2016

Feedbacks

Strength

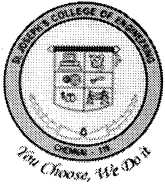
- Library and seminar hours were could allotted for the students to improve their book reference and presenting skills respectively
- Arrangement have been made through the respective in charges and buses has been allotted

Weakness

- More focus could be on research-based learning
- Need training in Personality development and communication skills

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Stakeholders Report on Institutional and Academic Evaluation

Academic Year: 2015-2016

S.No	Feed back	Action Taken by the Institute
1.	Unit wise internal assessment exams would be useful	Internal assessment pattern is discussed in academic council meeting and changed
2.	Special focus on Mathematics and chemical Engineering papers for the students is necessary	Attention is given more for Maths and Problem oriented papers by the respective staffs in the department
3.	Special coaching classes to be arranged for slow learners	Special classes has been conducted and monitored for slow learners
4.	Project guidance to the students could be initiate in third year beginning	Measures has been taken and segregation and allotment of guide in IIIyr has been done
5.	Students performance in interviews need to be focused on placement drive	Students interview answering skills and basic etiquettes are focused in mock interview practices from 2 nd year onwards

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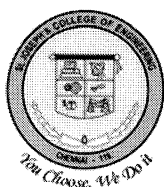
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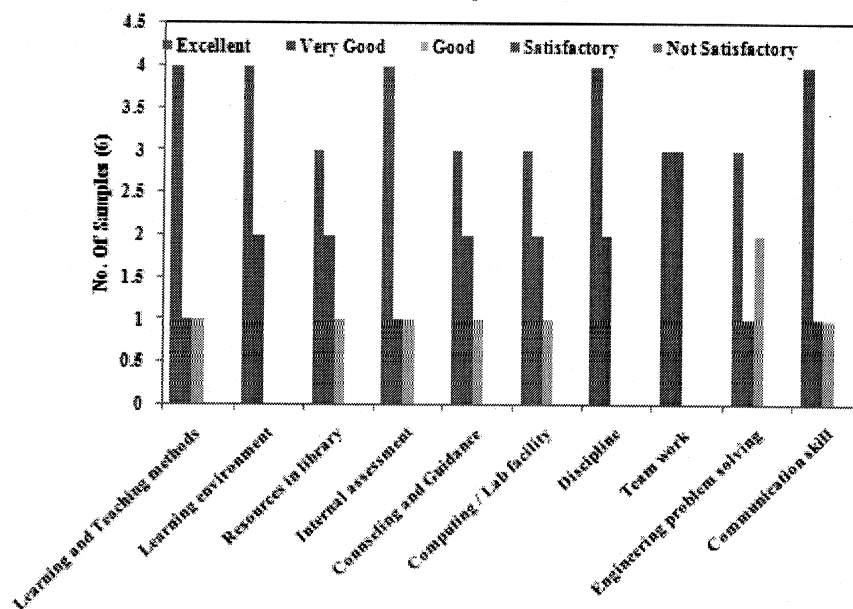
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Institution Feedback Analysis and Report

Academic Year: 2015-2016

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

Academic year: 2015-16

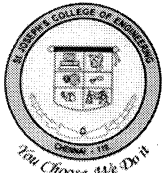


Feedback

- Engineering problem solving subjects are coached well
- Few Core companies were invited for placements
- Unit wise internal assessment exams would be useful
- Skills related suiting to the Industry to be included in the curriculum


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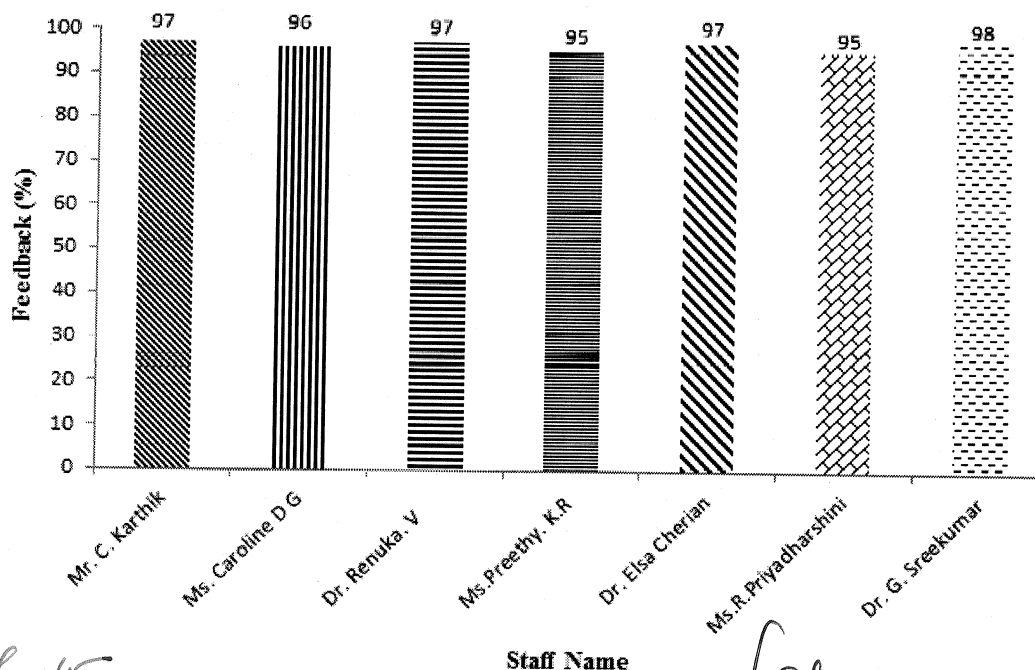
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DEPARTMENT OF BIOTECHNOLOGY

Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2015- 2016 - EVEN SEMESTER
II YEAR / IV SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT6401	Analytical Methods And Instrumentation	Mr. C. Karthik	97
BT6402	Applied Thermodynamics For Biotechnologists	Ms. Caroline D G	96
BT6403	Heat Transfer Operations	Dr. Renuka. V Ms.Preethy. K.R	97/95
BT6404	Enzyme Technology And Biotransformation	Dr. Elsa Cherian Ms.R.Priyadharshini	97/95
BT6405	Bioprocess Principles	Dr. G. Sreekumar	98



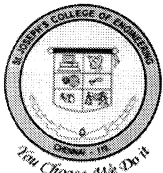
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Staff Name

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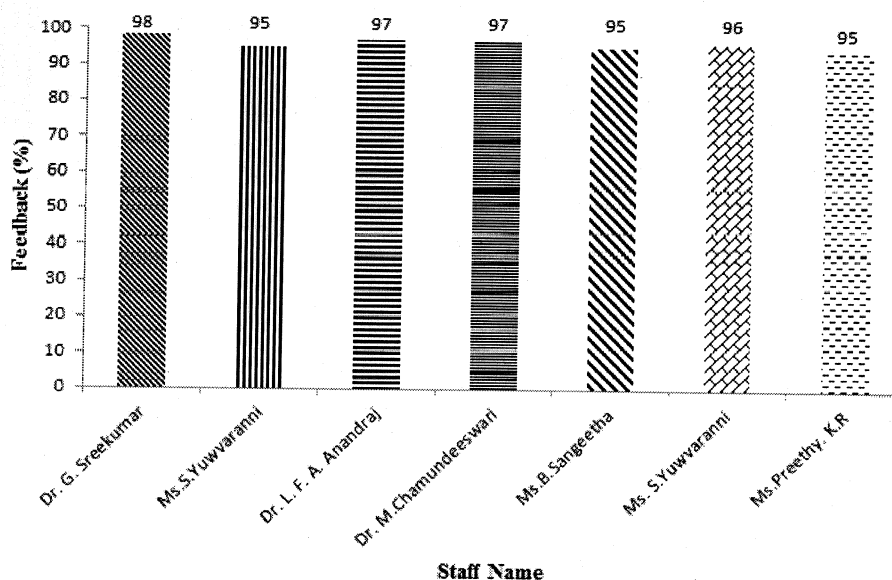
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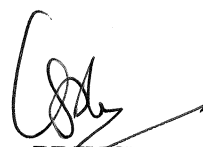
ACADEMIC YEAR 2015-2016 - EVEN SEMESTER
III YEAR / VI SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT6601	Total Quality Management for Biotechnologist	Dr. G. Sreekumar Ms.S.Yuwvaranni	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

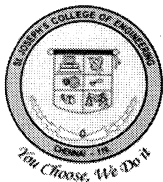



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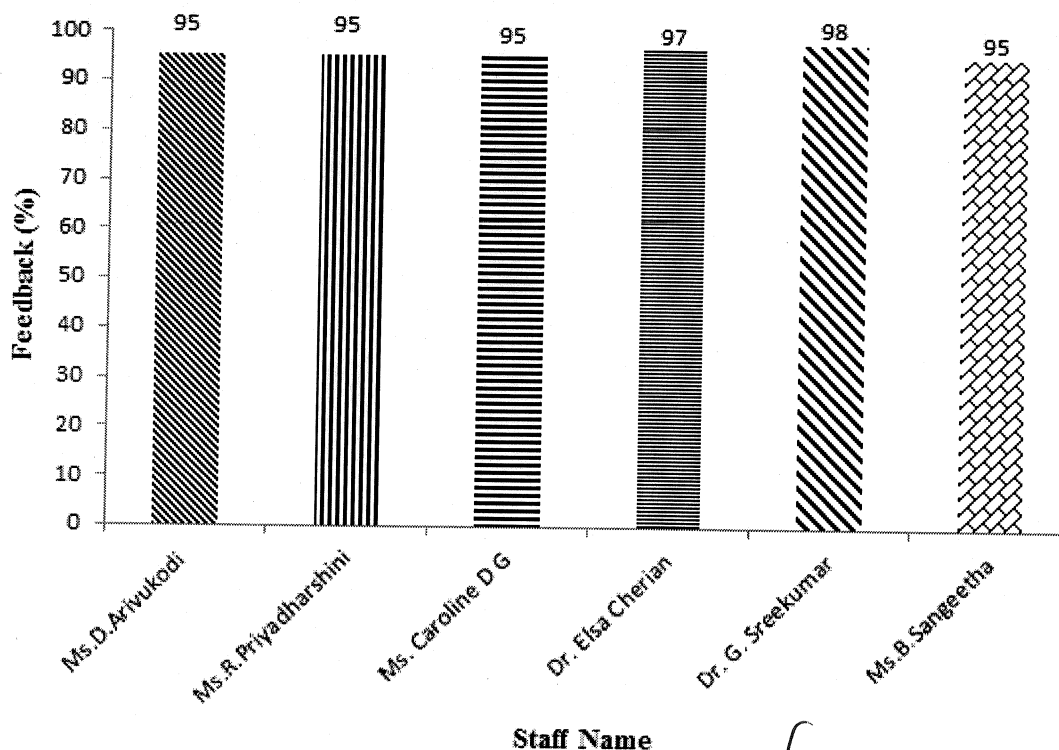
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ACADEMIC YEAR 2015-2016 - ODD SEMESTER
II YEAR / III SEM

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

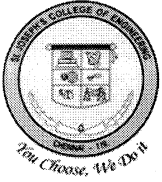


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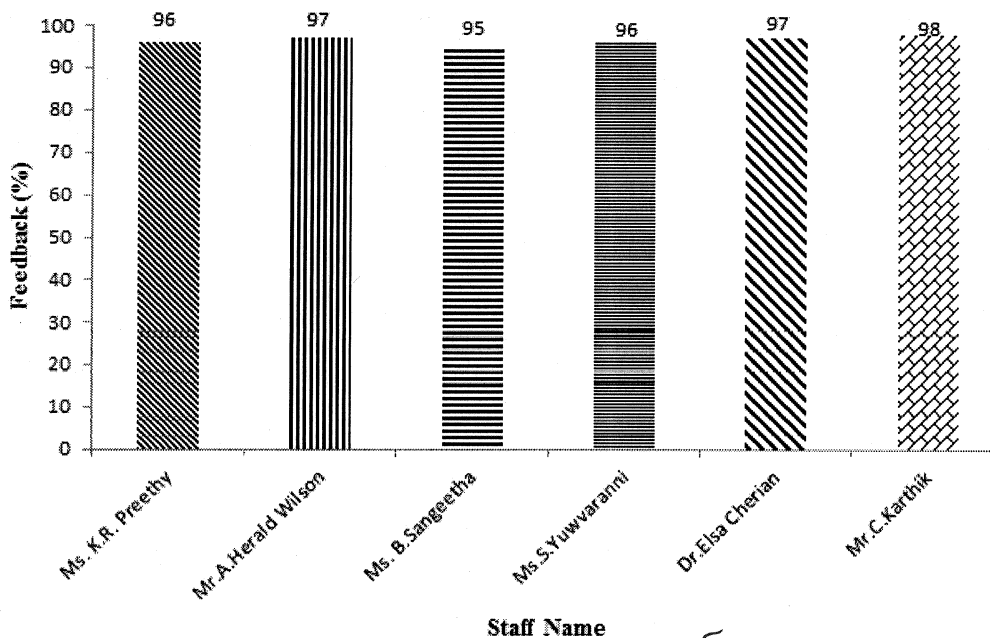
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ACADEMIC YEAR 2015-2016 - ODD SEMESTER
III YEAR / V SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT6501	Protein Structure Function and Proteomics	Ms. K.R. Preethy	96
BT6502	Bioprocess Engineering	Mr.A.Herald Wilson	97
BT6503	Mass Transfer Operation	Ms. B.Sangeetha	95
BT6504	Molecular Biology	Ms.S.Yuwvaranni	96
BT6003	Elective – I: Principles of Food Process	Dr.Elsa Cherian	97
BT6006	Elective – II: Biopharmaceutical Tech.	Mr.C.Karthik	98



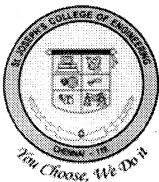
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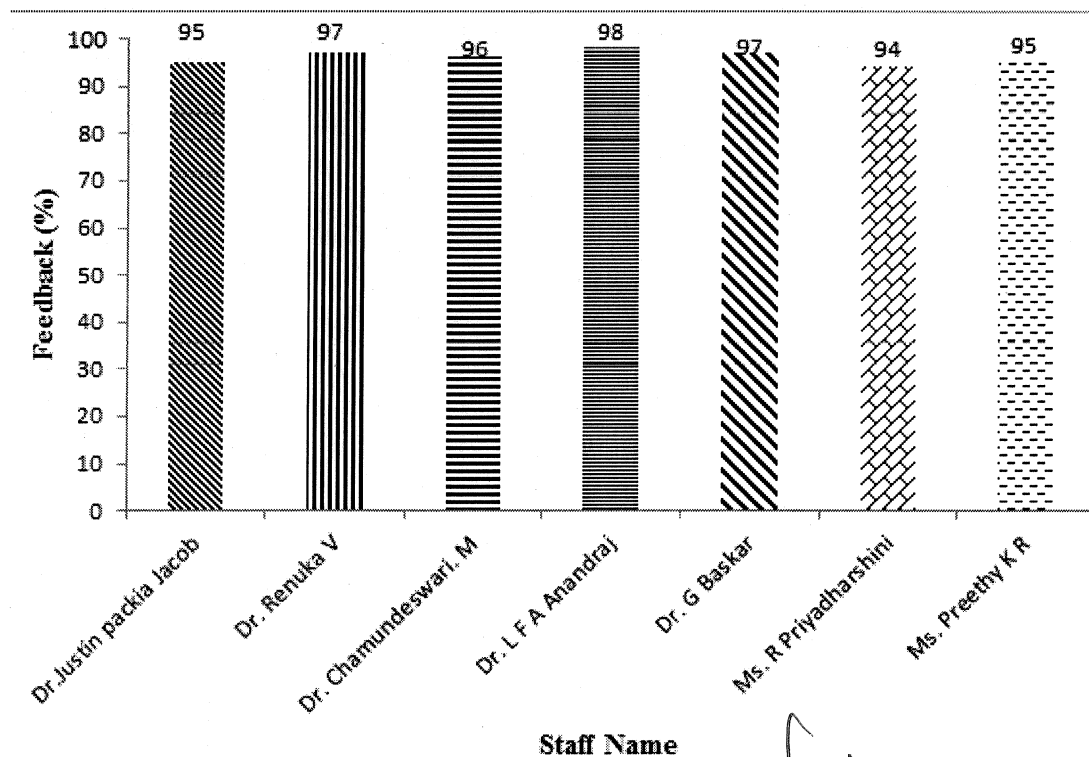
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DEPARTMENT OF BIOTECHNOLOGY


Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2015-2016 - ODD SEMESTER
IV YEAR / VII SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT2030	Plant Biotechnology	Dr. Justin packia Jacob	95
BT2035	Bioethics	Dr. Renuka V	97
BT2040	Biopharmaceutical Technology	Dr. Chamundeswari. M	96
BT2046	Immunotechnology	Dr. L F A Anandraj	98
BT2401	Downstream Processing	Dr. G Baskar	97
BT2402	Protein Engineering	Ms. R Priyadharshini	94
GE2022	Total Quality Management	Ms. Preethy K R	95




HOD
Head of the Department
Department of Biotechnology
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