

**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 2013-2014**

S.No	Stake holders	Feed back	Action Taken by the Institute
1.	Student	Hands on sessions required for biotech industrial process	Students has been insisted to take up in plant training in the semester holidays
2.	Staff	Guest lectures could be arranged for the students to know the actual needs of the industries	Guest lectures are arranged for various topics in the college
3.	Parent	syllabus to be more oriented toward the current trends	Discussion has been done and chanhes had been made in R-2013s syllabus
4.	Alumni	More focus should be given on different upcoming biotechnology techniques	VAC programs been conducted on the biotechnology techniques like Monoclonal antibody, PCR and Animal handling
5.	Employer	Education on Leadership qualities could be emphasized more at college level	Leader ship qualities been improved by soft skill training and personality development lectures allowing students to organize symposium

**HOD**

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

**PRINCIPAL**  
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ST. JOSEPH'S COLLEGE OF ENGINEERING  
(A CHRISTIAN MINORITY INSTITUTION)  
JEPPIAAR EDUCATIONAL TRUST,  
OLD MAMALLAPURAM ROAD,  
CHENNAI-600 119.

# St. JOSEPH'S COLLEGE OF ENGINEERING

(A CHRISTIAN MINORITY INSTITUTION)

JEPPIAAR EDUCATIONAL TRUST

Approved by All India Council for Technical Education, New Delhi,  
and Government of Tamil Nadu.

Accredited by the National Board of Accreditation, New Delhi,  
and Affiliated to Anna University, Chennai.

JEPPIAAR NAGAR, OLD MAMALLAPURAM ROAD, CHENNAI - 600 119.

Phone Nos : Admn. Office : 044 - 24501060, 24501449

Principal: 044 - 24503237

\*Fax : 044 - 24500861

e-mail : jprjosep@viasmd01.vsnl.net.in

Website : www.stjosephs.ac.in



Ref: SJCE/Biotech/BOS/ODD 2013

21.06.13

Dr. G. Sreekumar  
Professor and HOD,  
Department of Biotechnology,

To,  
THE DIRECTOR  
Centre for Academic Courses  
Technology Board, Anna University,  
Chennai - 600025

Sub: Suggestion for including topics related to B.Tech Biotechnology course

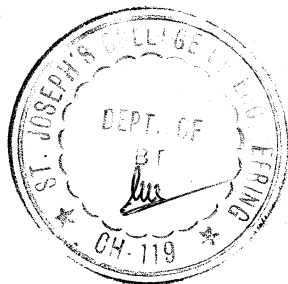
Dear Sir / Madam,


We are happy to share with you that the revised syllabus (R- 2008) with recent inclusions in all subjects provides a better and detailed knowledge about the course. However, in the view of attainment of POs and PSOs to a maximum level, we wish to suggest you the following topics may be incorporated in order to fulfill the curriculum gap towards current industrial needs. We will be happy if you discuss these points in the "Board of studies-Academics" meeting to be held in this academic year thereby to seek the possibility of including in the forthcoming new regulations (R- 2013). The topics to be considered are

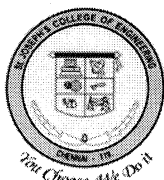
- i. Innovations in the field of competitive advantage in biochemical engineering
- ii. Industrial aspects on Entrepreneurship perspectives in biotechnology
- iii. Distilleries and Breweries technology- to be included in Food Process Technology

Kindly do the needful

Thanking you



  
**Dr. G. SREEKUMAR** M.Sc., M.Tech., Ph.D  
Professor & Head of the Department  
Department of Biotechnology  
St. Joseph's College of Engineering  
Old Mamallapuram Road, Chennai - 600 119. India



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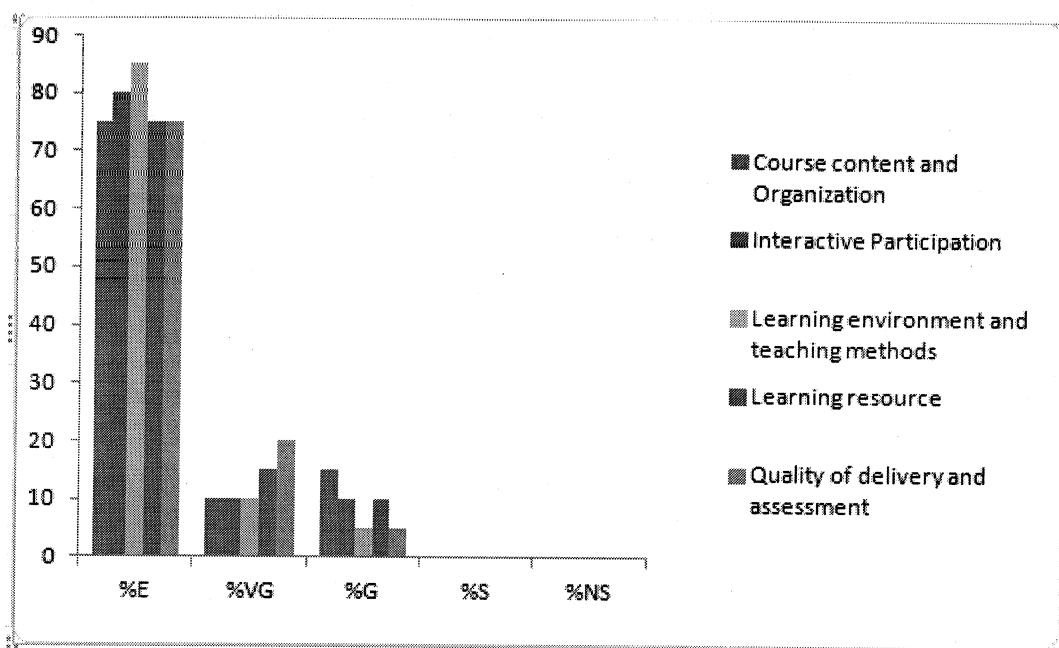
### DEPARTMENT OF BIOTECHNOLOGY

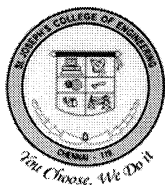
## Curriculum Feedback Analysis by Students

ACADEMIC YEAR 2013-2014

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

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





## **St. JOSEPH'S COLLEGE OF ENGINEERING**

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### **DEPARTMENT OF BIOTECHNOLOGY**

## **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 191 students gave their feedback on curriculum for the academic year 2013-2014. 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**

- From the analysis of the students feedback it is revealed that they are satisfied with the curriculum framed
- Learning environment was comfortable for the
- Video lecture can be used for delivering the course content

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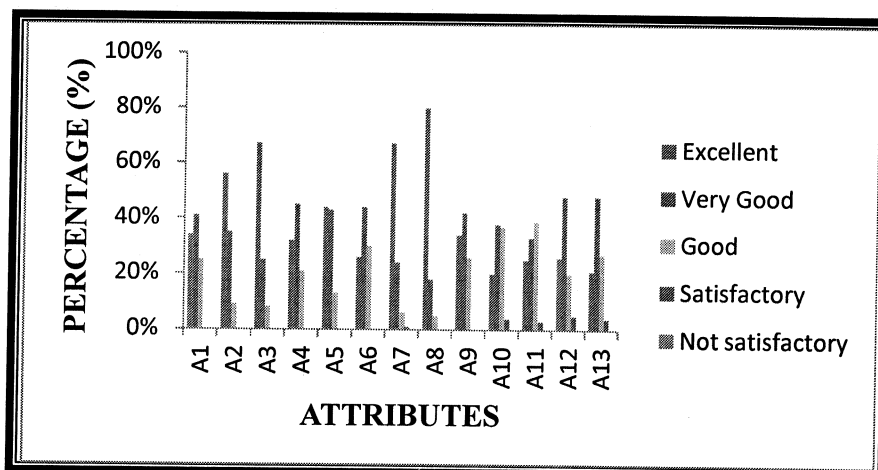
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**DEPARTMENT OF BIOTECHNOLOGY**

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

**Academic Year: 2013-2014**

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.	44	43	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	6	1	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	5	0	0
9.	I have the freedom to adopt new techniques of teaching such as seminar presentations, group discussions, demonstration and student's participations.	34	42	26	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.	25	33	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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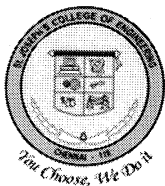
**Teacher's Feedback on Curriculum -Report**

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 in various online courses should be encouraged.
- Training programs should be conducted for the students in emerging areas.

  
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## DEPARTMENT OF BIOTECHNOLOGY

### Student Exit Survey Analysis

ACADEMIC YEAR: 2013-2014

Batch 2010-2014

S.No	Attributes	O	E	G	S	U
1.	Basic sciences and Engineering fundamentals	1	3	2	0	0
2.	Usage of modern techniques in biotech processes	2	2	2	0	0
3.	Project management, Commercialization & social application	1	2	3	0	0
4.	Professional codes & Bioethical practices	1	1	4	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	3	2	0	0
Total		7	14	15	0	0

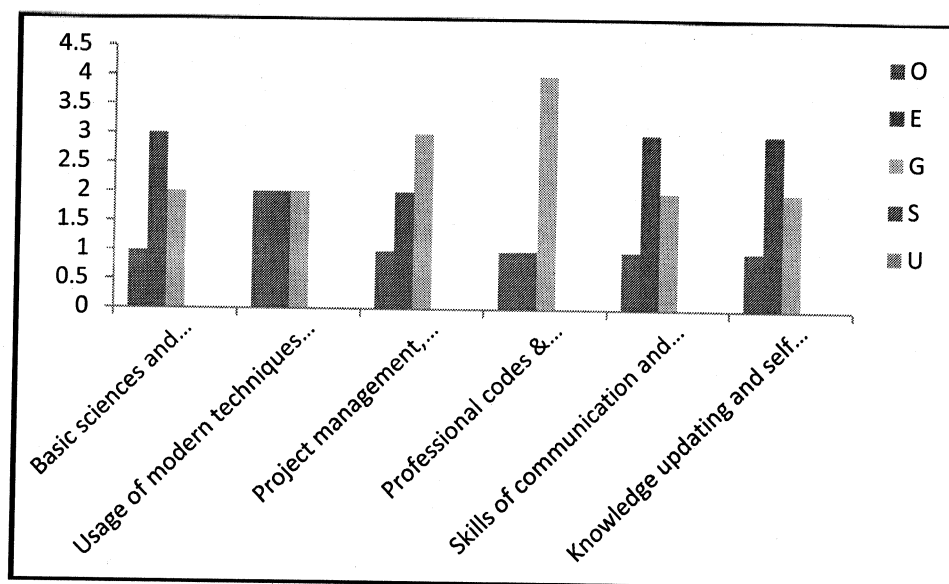
O - Outstanding

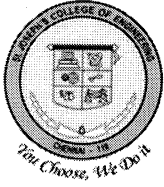
E - Excellent

G - Good

S - Satisfactory

U - Unable to judge





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### **DEPARTMENT OF BIOTECHNOLOGY**

### **Student Exit Survey Report**

**ACADEMIC YEAR: 2013-2014**

**Batch 2010-2014**

#### **Strength**

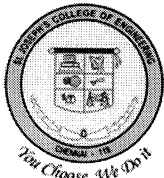
- Usage of Modern Techniques in Biotech process seems to be good in the college
- Project management, Commercialization & social application of the Course see are satisfactory

#### **Weakness**

- Knowledge updating and self learning ability towards sustained employability could be focused more

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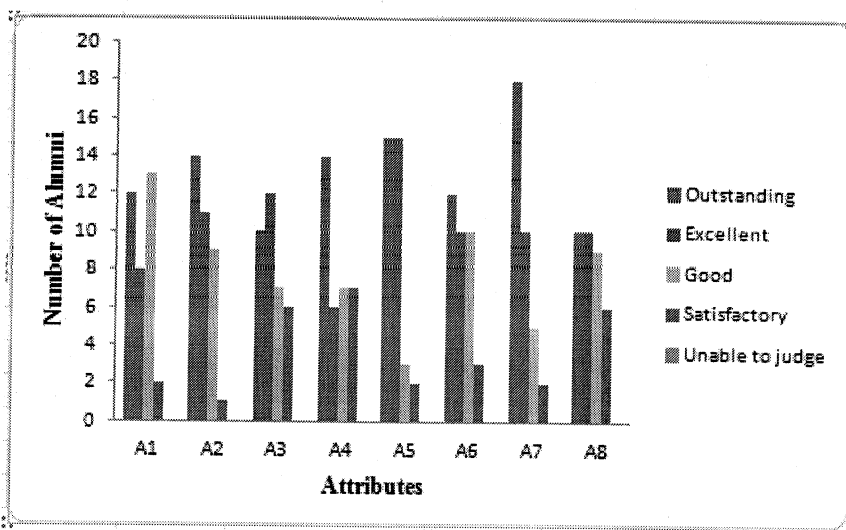
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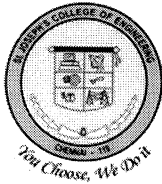
### DEPARTMENT OF BIOTECHNOLOGY

#### Alumni Feedback Analysis

**Academic Year: 2013-2014**

S.No.	Attributes	Outstanding	Excellent	Good	Satisfactory	Unable to judge
1.	Basic sciences and Engineering fundamentals	12	8	13	2	0
2.	Usage of modern techniques in biotech processes	14	11	9	1	0
3.	Project management, Commercialization & social application	10	12	7	6	0
4.	Professional codes & Bioethical practices	14	6	7	7	0
5.	Skills of Communication and Team work	15	15	3	2	0
6.	Effectiveness of Placement enhancement programs	12	10	10	3	0
7.	Effectiveness of Higher studies guidance	18	10	5	2	0
8.	Ability to meet the current Industrial / Research challenges	10	10	9	6	0
<b>Total</b>		<b>105</b>	<b>82</b>	<b>54</b>	<b>29</b>	<b>0</b>





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DEPARTMENT OF BIOTECHNOLOGY

### Alumni Feedback Report

Academic Year: 2013-2014

Alumni feedback was obtained from nearly 35 alumni for the academic year 2013-2014. 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

- Good exposure towards placement training program is provided

#### Weakness

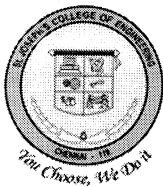
- More focus should be given on different upcoming biotechnology techniques

#### Feedback analysis report

- Academic related programs and hospitality are satisfactory

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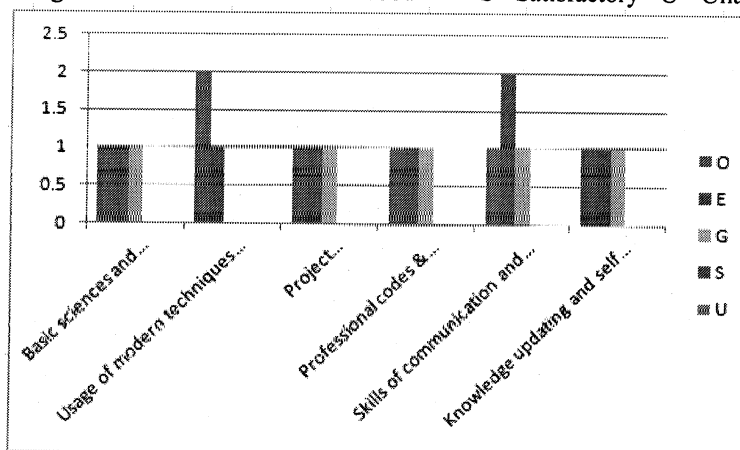
### DEPARTMENT OF BIOTECHNOLOGY

### Employer Feedback Analysis and Report

ACADEMIC YEAR: 2013-2014

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	2	1	0	0	0
3.	Project management, Commercialization & social application	1	1	1	0	0
4.	Professional codes & Bioethical practices	1	1	1	0	0
5.	Skills of communication and Team work	1	2	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

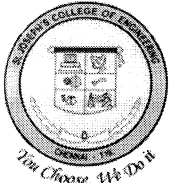


#### FEEDBACK

- Industry related mini projects can be incorporated in the syllabus.
- Bioinformatics tools can be taught in detail.
- Modern tools usage can be included in the syllabus.

  
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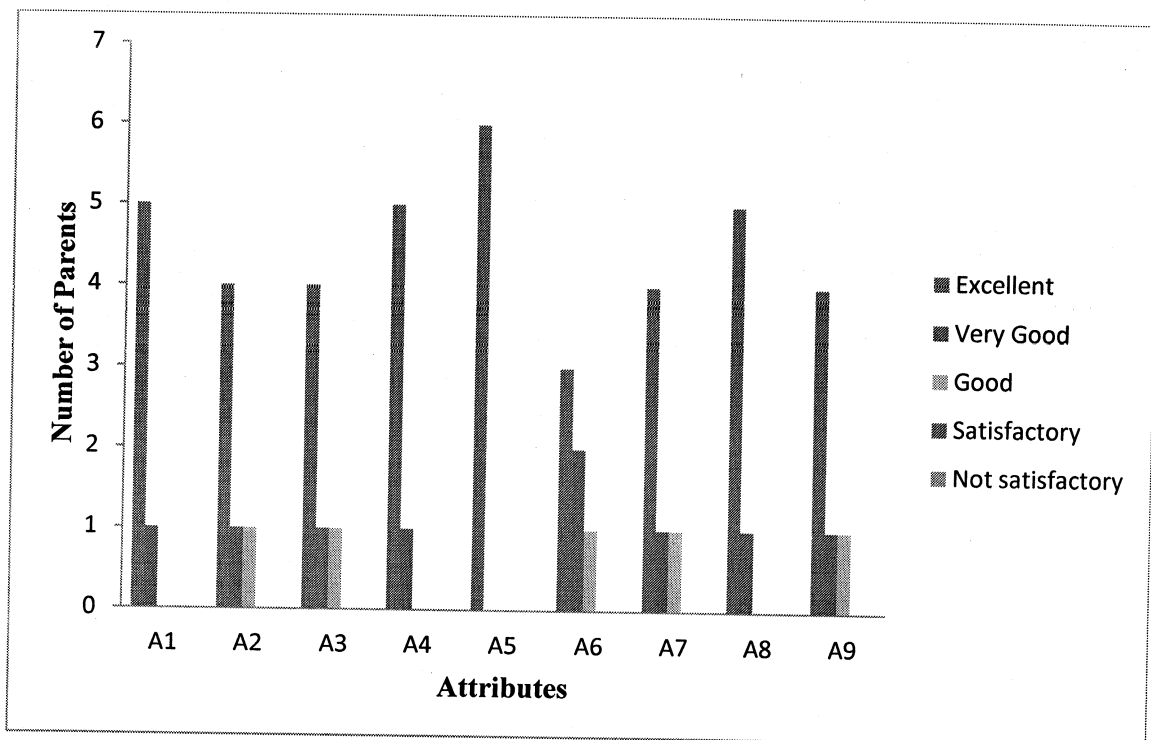
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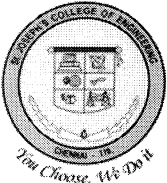
## DEPARTMENT OF BIOTECHNOLOGY

### Parents Feedback Analysis

#### ACADEMIC YEAR 2013-2014

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	4	1	1	0	0
4.	Discipline in the college	5	1	0	0	0
5.	Mess facility	6	0	0	0	0
6.	Transport Facility	3	2	1	0	0
7.	Industrial exposure given by the department	4	1	1	0	0
8.	Training provided to appear for placement	5	1	0	0	0
9.	Guidance provided for higher studies	4	1	1	0	0
<b>Total</b>		<b>40</b>	<b>9</b>	<b>5</b>	<b>0</b>	<b>0</b>





# St. JOSEPH'S COLLEGE OF ENGINEERING

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## DEPARTMENT OF BIOTECHNOLOGY

### Parents Feedback Report

ACADEMIC YEAR 2013-2014

#### Feedbacks

##### Strength

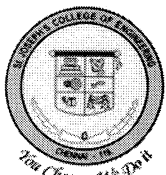
- Student's counselling and guidance in the department are extremely good
- Mess facility are extraordinary in the college
- Discipline in the college level are very much satisfactory
- Training provided to appear for placement are extremely organized well both at College and Department level
- Guidance provided for higher studies in the department are extremely good

##### Weakness

- Syllabus to be more oriented toward the current trends
- More focus should be given on different upcoming biotechnology techniques

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## St. JOSEPH'S COLLEGE OF ENGINEERING

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### DEPARTMENT OF BIOTECHNOLOGY

## Stakeholders Report on Institutional and Academic Evaluation

Academic Year: 2013-2014

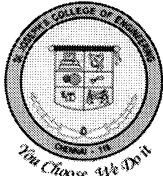
S.No	Feed back	Action Taken by the Institute
1.	More number of bus to be available during special class –extended stay	Arrangement have been made through the respective in charges and buses has been allotted
2.	Permanent Fixing of LCD projector for each class would be convenient	Arrangements are made to fix the LCD in classes
3.	Special guidance for GRE TOFEL to be given	Counseling and workshops on Higher studies has been conducted periodically to enhance their idea in Higher studies
4.	More focus should be given on different upcoming biotechnology techniques	VAC programs been conducted on the biotechnology techniques like Monoclonal antibody, PCR and Animal handling
5.	Education on Leadership qualities could be emphasized more at college level	Leader ship qualities been improved by soft skill training and personality development lectures allowing students to organize symposium

  
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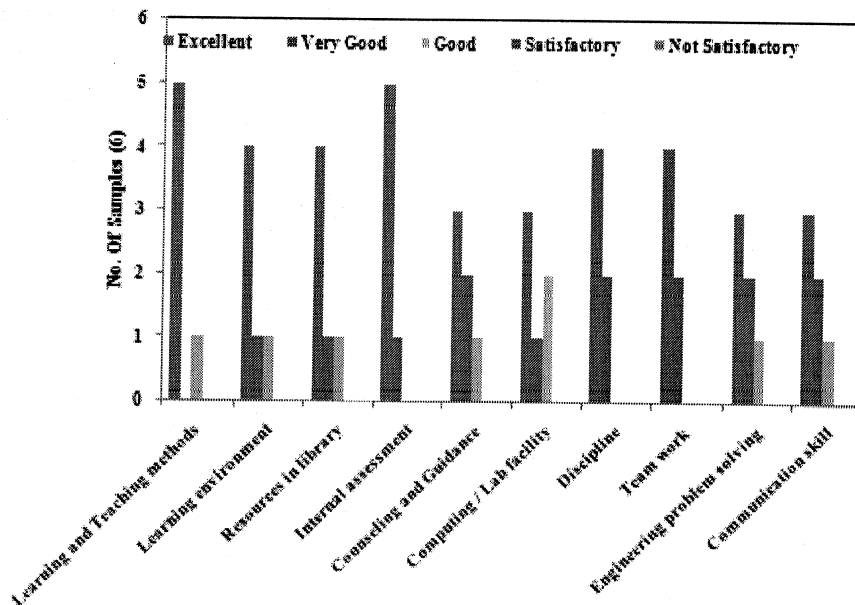
### DEPARTMENT OF BIOTECHNOLOGY

## Institution Feedback Analysis and Report

Academic Year: 2013-2014

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

Academic year: 2013-14

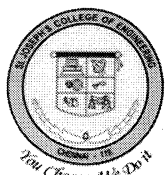


### Feedback

- Team work skills are improved through mini projects
- More number of bus to be available during special class –extended stay
- Permanent Fixing of LCD projector for each class would be convenient
- More focus should be given on different upcoming biotechnology techniques

  
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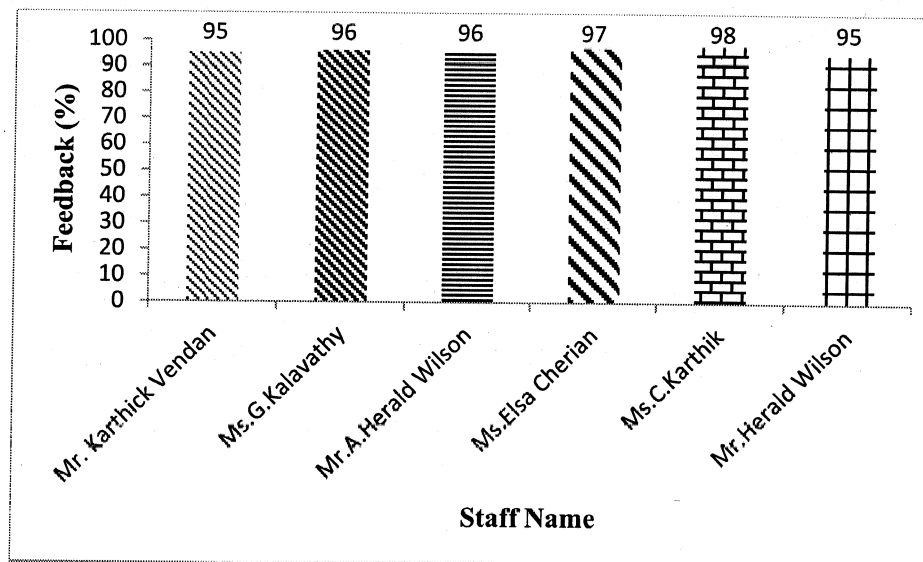
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### DEPARTMENT OF BIOTECHNOLOGY

## Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2013-2014 - ODD SEMESTER  
II YEAR / III SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
MA2211	Transforms and Partial Differential Equations	Mr. Karthick Vendan	95
BT2204	Principles of Chemical Engineering	Ms.G.Kalavathy	96
GE2021	Environmental Science and Engineering	Mr.A.Herald Wilson	96
BT2201	Cell Biology	Ms.Elsa Cherian	97
BT2202	Bioorganic Chemistry	Ms.C.Karthik	98
BT2203	Biochemistry – I	Mr.Herald Wilson	95



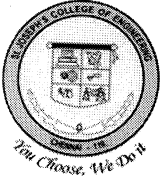
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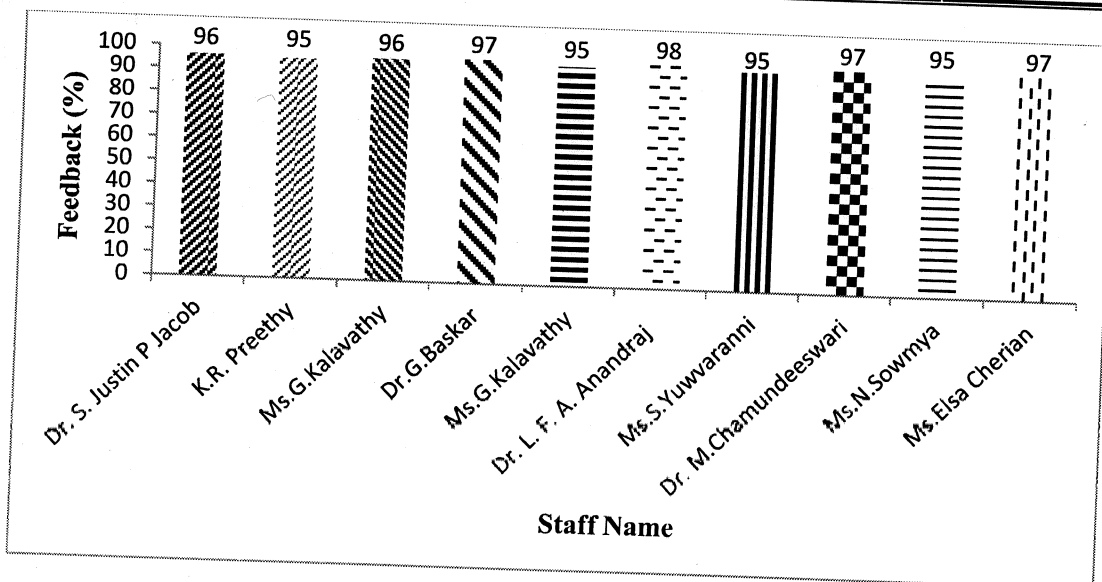
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## DEPARTMENT OF BIOTECHNOLOGY

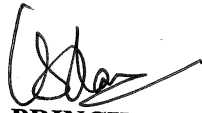
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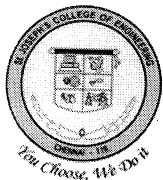
ACADEMIC YEAR 2013-2014 - EVEN SEMESTER  
III YEAR / VI SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT2351	Bio informatics - II	Dr. S. Justin P Jacob Ms. K.R. Preethy	96/95
BT2352	Chemical Reaction Engineering	Ms.G.Kalavathy	96
BT2353	Bioprocess Engineering	Dr.G.Baskar/ Ms.G.Kalavathy	97/95
BT2354	Immunology	Dr. L. F. A. Anandraj Ms.S.Yuwvaranni	98/95
BT2355	Genetic Engineering	Dr. M.Chamundeeswari	97
BT 2023	Molecular Pathogenesis	Ms.N.Sowmya	95
BT 2025	Principles of Food Processing	Ms.Elsa Cherian	97



  
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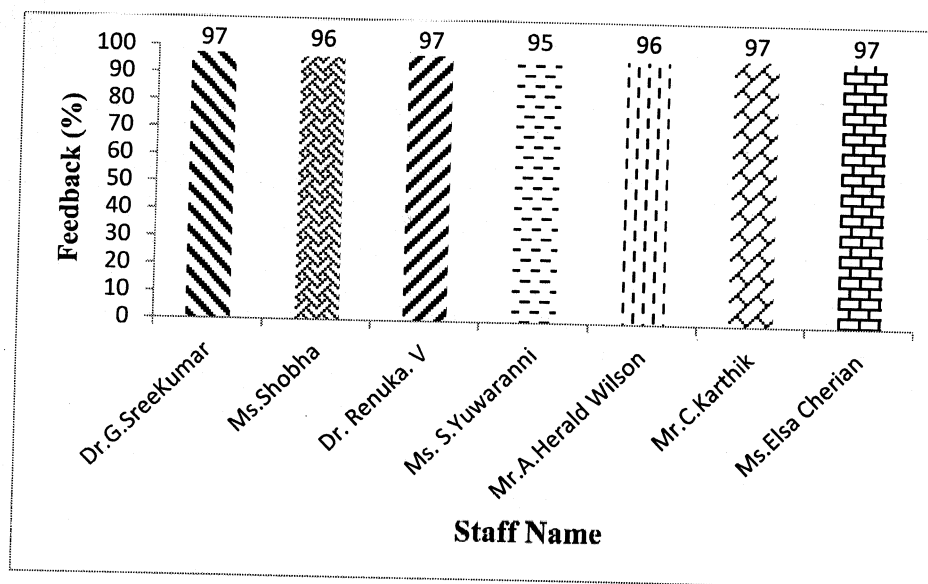
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## DEPARTMENT OF BIOTECHNOLOGY

### Consolidated report on Students Feedback analysis on teaching faculty

ACADEMIC YEAR 2013-2014 - EVEN SEMESTER  
II YEAR / IV SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
BT 2251	Basic Industrial Biotechnology	Dr.G.SreeKumar	97
MA 2263	Probability and Statistics	Ms.Shobha	96
BT 2252	Unit Operations	Dr. Renuka. V/ Ms. S. Yuwaranni	97/95
BT 2253	Chemical Thermodynamics and Bio	Mr.A.Herald Wilson	96
BT 2254	Instrumental Methods of Analysis	Mr.C.Karthik	97
BT 2255	Microbiology	Ms.Elsa Cherian	97

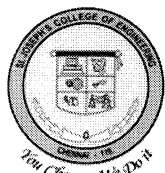


*[Signature]*  
HOD

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

*[Signature]*  
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JEPPIAAR EDUCATIONAL TRUST,  
OLD MAMALLAPURAM ROAD,  
CHENNAI-600 119.



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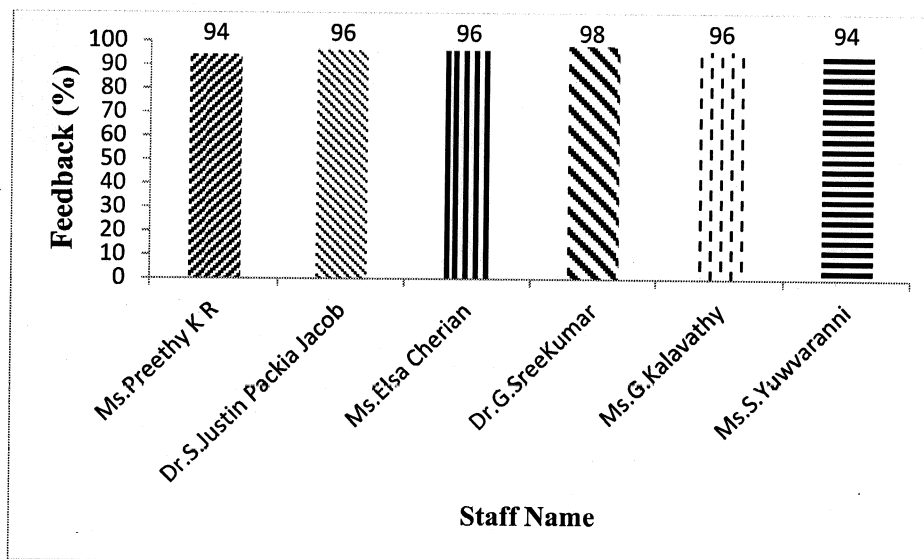
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### DEPARTMENT OF BIOTECHNOLOGY

## Consolidated report on Students Feedback analysis on teaching faculty

### ACADEMIC YEAR 2013-2014 - ODD SEMESTER III YEAR / V SEM

Subject Code	Subject	Name of the staff	Feedback Percentage
GE2025	Professional Ethics In Engineering	Ms.Preethy K R	94
BT2301	Bioinformatics - I	Dr.S.Justin Packia Jacob	96
BT2302	Biochemistry II	Ms.Elsa Cherian	96
BT2303	Bioprocess Principles	Dr.G.SreeKumar	98
BT2304	Mass Transfer operations	Ms.G.Kalavathy	96
BT2305	Molecular Biology	Ms.S.Yuwvaranni	94

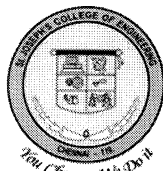


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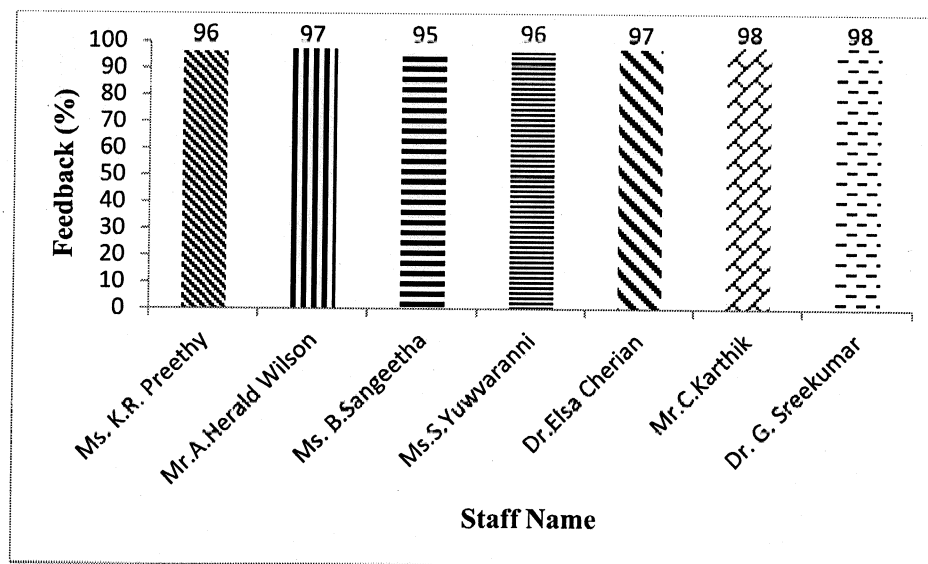
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### DEPARTMENT OF BIOTECHNOLOGY

## Consolidated report on Students Feedback analysis on teaching faculty

**ACADEMIC YEAR 2013-2014 - ODD SEMESTER  
IV YEAR / VII SEM**

Subject Code	Subject	Name of the staff	Feedback Percentage
BT2030	Plant Biotechnology	Ms.Preethy K R	94
BT2035	Bioethics	Dr.Renuka V	96
BT2040	Biopharmaceutical Technology	Mr.A.Herald Wilson	95
BT2046	Immunotechnology	Ma.N.Sowmya	96
BT2401	Downstream Processing	Dr.G.Baskar	97
BT2402	Protein Engineering	Dr.M.Chamundeeswari	96
GE2022	Total Quality Management	Ms.N,Sowmya Ms.Yuwvaranni S	96/94



*[Signature]*  
**HOD**

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CHENNAI-600 119.