



# Sri Venkateswara College of Engineering

(An Autonomous institution affiliated to Anna University)

Pennalur, Sriperumbudur Tk - 602117

05/01/2018

## Department of Biotechnology

### Feedback Analysis Report for the Academic Year 2016-17 & 2017-18

Sri Venkateswara College of Engineering is committed to transform the learners into global contributors and achievers, who are able to meet the growing industrial challenges with ethical values. The vision of the biotechnology department is in line with the above college vision.

To achieve the above vision, it is necessary to adequately revise and reframe the curriculum and syllabus of the program to meet the growing industrial and societal needs. Hence, obtaining feedback on curriculum and syllabus from the major stakeholders (Students, Faculty Members, Alumni and Employers) will assist in enhancing the program curriculum to produce graduates of high calibre and readily employable in industry or pursue higher education. In this regard, feedback on curriculum and syllabus for various attributes are obtained every year from the above stakeholders to identify and bridge the gap between the industry and academia.

#### Student Feedback (AY 2016-18)

S.No.	Attributes	Remarks	References
1	Course is relevant to the current industry needs	Excellent Students are satisfied on the relevance of the course to the current industry needs	Student feedback analysis for the AY 2016-17 & 2017-18
2-6	Fulfilment of Course Outcomes	Excellent Students are satisfied with the COs of the courses offered	
7	Course enhanced my ability to formulate, analyze and solve problems	Excellent Students are agreed that the courses improved their problem-solving ability	
8	Course imparted sufficient technical skills which will help in placement and higher studies	Excellent Students are satisfied that the courses imparted sufficient technical skills	

9	Appropriate textbooks and reference books were quoted and were available in the library	Excellent Students are contented with the availability of appropriate text and reference books	
10	Continuous Assessments (Test, Assignment, MCQ, etc) are relevant to the COs and are effective	Excellent Students agreed that the assessments relevant to the COs	

### Faculty Feedback (AY 2016-18)

S.No.	Attributes	Remarks	References
1	Is the course relevant for the program?	Excellent Agreed that the courses are relevant for the program	Faculty feedback analysis for the AY 2016-17 & 2017-18
2	Is the allocation of the credits to the course appropriate?	Excellent Satisfied with the credit allocation to the courses	
3	Are the course outcomes well defined and clear to the teachers and the students?	Excellent Satisfied with the COs	
4	Is the course content adequate in relation to the Course Outcomes (COs)?	Excellent Agreed that the course content is adequately related to the COs	
5	How is the scope for the use of modern / ICT tools and for improved learning?	Excellent Satisfied with the currently available modern tools	
6	Are appropriate textbooks and reference books quoted and are available in the library?	Excellent Satisfied with the availability of appropriate text and reference books	
7	How well is the course evaluation scheme designed?	Excellent Satisfied with the evaluation scheme	
8	Does the course content enable Participatory Learning?	Excellent	

		Agreed that the course content enables participatory learning	
9	Is the course duration adequate?	Excellent Satisfied with the adequacy of course duration	
10	Overall satisfaction	Excellent Satisfied with the curriculum and syllabus of Regulation 2016	

### Alumni Feedback (AY 2016-18)

S.No.	Attributes	Remarks	References
1	Courses were relevant for the program and met the current industry needs	Very Good Seeking improvement to meet the current industry needs	Alumni feedback analysis for the AY 2016-17 & 2017-18
2	Knowledge provided by the courses were useful to the professional practice	Very Good Seeking improvement	
3	The courses enhance the employability potential	Very Good Seeking more courses to enhance employability skills	
4	Appropriate textbooks and reference books were quoted and were available in the library	Very Good Seeking for the availability of more text and reference books	
5	Courses enabled me to relate theory to practice	Very Good Expecting further improvement in relation between the theory and practical courses	
6	The courses enabled critical thinking and problem-solving skills	Good Seeking improvement in problem-solving skills	

7	The courses provided an opportunity to enhance communication and interpersonal skills	Very Good Expecting improvement in courses to further enhance communication and interpersonal skills	
8	Curriculum and courses inspired lifelong learning	Very Good Seeking further improvement	
9	Rate the evaluation schemes adopted	Good Looking for further improvement in the evaluation scheme	
10	Overall Satisfaction of the Program	Very Good Satisfied with the Regulation 2016 curriculum and syllabus	

#### Employer Feedback (AY 2016-18)

S.No.	Attributes	Remarks	References
1	The curriculum addresses the industries' current needs	Very Good Seeking improvement in curriculum to address the industries' current needs	Employer feedback analysis for the AY 2016-17 & 2017-18
2	The curriculum is oriented towards the Organization's Vision & Mission	Excellent Satisfied with the curriculum orientation	
3	The curriculum can serve the Society's requirements	Very Good Looking for further improvement	
4	The Curriculum and Syllabus have imparted useful knowledge needed for professional practice	Excellent Satisfied with curriculum and syllabus	
5	The curriculum has provided the competency to relate theory to practice	Very Good Expressing further enhancement	

6	Projects emphasize team building and teamwork	Very Good Seeking further improvement in projects to emphasize team building activity
7	The co-curricular activities have enhanced organizing and interpersonal skills	Excellent Agreed that the co-curricular activities have enhanced organizing and interpersonal skills of the students
8	The curriculum has instilled Professional Ethics in the students	Excellent Agreed that the curriculum instilled ethics in the students
9	The curriculum has stimulated continuous learning	Very Good Seeking improvement in stimulated continuous learning
10	Overall Satisfaction on the Curriculum and Syllabus	Excellent Satisfied with the curriculum and syllabus of Regulation 2016

The mean of responses received from the students and faculty feedback on all the attributes were excellent and found satisfied with the curricular aspects of the program on Regulation 2016.

However, mean responses received from the alumni were very good on the following attributes:

- 1) Courses were relevant for the program and met the current industry needs
- 2) Knowledge provided by the courses were useful to the professional practice
- 3) The courses enhance the employability potential
- 4) Appropriate textbooks and reference books were quoted and were available in the library
- 5) Courses enabled me to relate theory to practice
- 6) The courses provided an opportunity to enhance communication and interpersonal skills
- 7) Curriculum and courses inspired lifelong learning
- 8) Overall Satisfaction of the Program

Mean responses received from the alumni were good on the following attributes:

- 1) The courses enabled critical thinking and problem-solving skills
- 2) Rate the evaluation schemes adopted

Alumni feedback analysis suggested that the necessary revisions / modifications to be carried out while framing the curriculum and syllabus in the subsequent regulations to fulfil the above needs.

Mean responses received from the employers were very good on the following attributes:

- 1) The curriculum addresses the industries' current needs
- 2) The curriculum can serve the Society's requirements
- 3) The curriculum has provided the competency to relate theory to practice
- 4) Projects emphasize team building and teamwork
- 5) The curriculum has stimulated continuous learning

Employer feedback analysis suggested that the necessary revisions / modifications to be carried out while framing the curriculum and syllabus in the subsequent regulations to fulfil the above requirements.

### **Action to be taken**

In light of the above feedback analysis, the following action plans were proposed to implement in the curriculum and syllabus of the program in the subsequent Regulation 2018.

- 1) Introduction of choice-based credit system for the academic flexibility and improving multidisciplinary skill sets of the students.
- 2) Introduction of Value-added courses and Open elective courses in the thrust areas of the program to enhance the student's skill sets.
- 3) Arranging guest lectures by the industry experts or internship or in-plant training to enhance the interaction with the industries.
- 4) Implementing the flexibility in scheme of evaluation by providing assignments related to improving problem-solving ability / creativity of the students, etc.
- 5) Encouraging the faculty members to undergo industrial training to know the industry needs from the students and train the students according to the industry needs.



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**Sriperumbudur Tk - 602117**

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**Department of Biotechnology**  
**Action Taken and Relevant Proofs during Implementation of R2018**

S. No.	Action to be taken	Action taken	Year	Proof
1	Introduction of choice-based credit system for the academic flexibility and improving multidisciplinary skill sets of the students.	Choice-based credit system was introduced in Regulation 2018.	2018	Curriculum & Syllabus of B.Tech & M.Tech Biotechnology Programs (Regulation 2018 - Choice-Based Credit System).  <b>Reference:</b> SVCE Regulation 2018.
2	Introduction of Value-added courses and Open elective courses in the thrust areas of the program to enhance the student's skill sets.	Value-added and Open elective courses in the thrust areas of the program were introduced in the Curriculum & Syllabus of B.Tech. Biotechnology Program in Regulation 2018.	2018	Curriculum & Syllabus of B.Tech Biotechnology Program (UG Regulation 2018 - Choice-Based Credit System).  <b>Reference:</b> UG Curriculum & Syllabus of R2018.
3	Arranging guest lectures by the industry experts or internship or in-plant training to enhance the interaction with the industries.	Organizing workshop/seminar in collaboration with industry at least once in a year by each department is one of the Industrial Objectives of SVCE-ISO 9001:2015 Quality manual.  The Internship / Industrial training for the students are made mandatory in Regulation 2018.	2018	Industrial Objective (IO) IO1: 30% of students to do industrial relevant final year project work. IO2: Number of faculty members undergoing industrial training in a year should be not less than 30% IO3: Organize workshop/seminar in collaboration with industry at least once in a year by each department IO4: Each department shall generate a minimum of

S. No.	Action to be taken	Action taken	Year	Proof
				<p>Rs.50,000/- per year from industrial consultancy work.</p> <p>IO5: Every department shall arrange 3 industrial visits per year.</p> <p><b>Reference:</b> ISO Quality Manual Page 48/90.</p> <p><b>Internship (Mandatory)</b></p> <p>The students should undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation. In this case the training has to be undergone either 2 or 4 week's period.</p> <p>The students may undergo Internship at Research organization / University (after due approval from the Department Consultative Committee (DCC)) for a period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.</p> <p><b>Reference:</b> The above statement is given in UG Regulation 2018 (Page 5/25; Clause 4.5).</p>
4	Implementing the flexibility in scheme of evaluation by providing assignments related to improving problem-solving ability / creativity of the students, etc.	Flexibility in scheme of evaluation for assignments was included in Regulation 2018.	2018	<p>There will be three assignments / tutorials / seminars / mini projects for each course. The total marks obtained in three assignments/tutorials/seminars/mini projects put together, shall be proportionately reduced for 15 marks and rounded to the nearest integer (This also implies equal weightage to three assignments/tutorials/seminars/mini projects).</p> <p><b>Reference:</b> The above statement is given in UG</p>



S. No.	Action to be taken	Action taken	Year	Proof
				Regulation 2018 (Page 15/25; Clause 12.1(a)) & faculty course files.
5.	Encouraging the faculty members to undergo industrial training to know the industry needs from the students and train the students according to the industry needs.	It is one of the Industrial Objectives of SVCE-ISO 9001:2015 Quality manual.	-	<p>Industrial Objective (IO)</p> <p>IO1: 30% of students to do industrial relevant final year project work.</p> <p>IO2: Number of faculty members undergoing industrial training in a year should be not less than 30%</p> <p>IO3: Organize workshop / seminar in collaboration with industry at least once in a year by each department</p> <p>IO4: Each department shall generate a minimum of Rs.50,000/- per year from industrial consultancy work.</p> <p>IO5: Every department shall arrange 3 industrial visits per year.</p> <p><b>Reference:</b> ISO Quality Manual Page 48/90.</p>

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