

Analysis of Feedback on Curriculum From all the Stakeholders Suggestions & Action Taken

1. Analysis of Feedback on Curriculum: By Alumni

General Comments: Alumni considers it very fortunate to be enrolled in Biotechnology programs at Bharati Vidyapeeth University's Rajiv Gandhi Institute of IT and Biotechnology. The teaching staff are expert, supporting and encouraging throughout the academic period.

- About 93.8 % have rated the syllabus as very good for applicability and relevance to real life situations with scope for local development needs
- 68.8% considered the syllabus very good for employability generation
- 93.8 % of students rated the curriculum very good for skill development
- 88.5 % alumni considered the syllabus as very good for research project & dissertation weightage
- 100 % students have claimed the curriculum to be good for theory, practical and field work component
- 93.8 % alumni have rated the curriculum as very good for depth of course content
- 81.3 % of alumni considered the curriculum to be very good for inclusion of latest advancements of the subject
- 93.8% alumni rated the curriculum to have attained the relevance of learning objectives as well as course outcome
- 93.8 % students are satisfied with Weightage given to Learning values (in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives)
- 37.5 % alumni have rated the syllabus as excellent in all the respects where as 50% have rated it as good in all respects. 12.5 % students have considered it as average.

Suggestions of Alumni

- Most of them have suggested their overall satisfaction with curriculum. Few have suggested to include industry internship in B.Sc. Biotechnology curriculum
- The curriculum helped to gain career knowledge and confidence to focus on future goals.
- Students enjoyed the learning process and diversity of the courses.
- The parallel hands-on practical sessions associated with most of the courses helped students to acquire individual education and team based collaborative work skills
- Overall, teaching program prepared students to face the world.

Action Taken

- Industry/research oriented intensive theory and practical courses giving hands on training to students are planned in the curriculum of Semester VI of revised B.Sc. Biotechnology Program
- The employment generation and entrepreneurship development courses are emphasized in the revised curriculum

2. Analysis of Feedback on Curriculum: By Students

- About 70 % of students rated curriculum as very good for applicability and relevance to real life situations and having scope for local development needs
- 60.8% considered the syllabus very good for employability generation
- 65.4 % of students have given very good rating for adequate weightage to entrepreneurship development in the curriculum
- 68.4 % students are highly satisfied by for the weightage given to skill development in the curriculum
- 63.9 % students considered the syllabus very good for research project/ dissertation weightage
- 71.5 % students have claimed the curriculum to be very good for theory, practical and field work component
- 71.5 % of students have rated the curriculum as very good for inclusion of latest advancements in the syllabus
- 76.9 % are satisfied with the curriculum for fulfilling the learning objectives and course outcome
- 71.5 students have rated the syllabus to be very good for adequate weightage to learning values in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives
- 75.4students consider the syllabus as very good for creation of interest to pursue higher education
- 25.4 % students rated the syllabus as excellent in all the respects where as 53.1% have rated it as good in all respects. 15.4 % students have considered it as average.

Suggestions of students

- Most of them have suggested their overall satisfaction with curriculum. Few have suggested to include industry internship in B.Sc. Biotechnology curriculum
- Job trends should be considered during curriculum development with focus on developing skills

- Grooming of students for interviews and soft skills; innovative activities and assignments are criteria to be considered in teaching programs
- Encourage active and practical learning by making connection with real world applications
- In spite of best efforts by staff, the job trends are challenging for students
- The parallel hands-on practical sessions associated with most of the courses helped students to acquire individual education and team based collaborative work skills
- Overall, teaching program prepared students to face the world.
- There is always a room for improvement and improvement is required in every aspect

Action Taken

- 1) Provision to undertake any of the Swayam courses is made in the revised B.Sc. Biotechnology curriculum which provides wide range of options to students for selection of courses as per their interest
- 2) The credits earned through Swayam Courses will be considered in final evaluation of the student
- 3) The revised B.Sc. Biotechnology curriculum not only provides the comprehensive training in all the core areas of Biotechnology, but it also trains students for the competitive examinations to be undertaken for admissions to PG programs in Biotechnology and allied disciplines. Moreover, the employability generation courses, Innovative thinking skills and entrepreneurship development are highly emphasized in the curriculum.
- 4) Activities such as Journal Club, presentations, group projects to prepare students to face the world are essential aspects of the teaching learning program.

Feedback on Curriculum: By Employers

Suggestions of employers on curriculum:

- Practical and field work component of the curriculum should be made very strong to provide hands on training to students
- The curriculum should have courses to improve communication and analytical skills of the students
- Syllabus should thoughtfully incorporate components that will develop managerial and leadership qualities of students
- Entrepreneurial skills of students should be developed right from early college days

Action Taken

- Over 90 % of the core courses of the revised biotechnology program are supplemented with practical courses.
- Seminar presentation and classroom discussion is incorporated as integral part of teaching –learning process to develop communication and analytical skills of students
- Course on entrepreneurship development, management of business, innovative ideas for startup are developed and included in the syllabus

Feedback on Curriculum: By Teachers

Teachers have rated the syllabus as excellent and very good for all the criteria.

They have following suggestions for B.Sc. Curriculum

- Improvement is necessary with regards to skill development and employability to cater to the demands of various sectors of biotechnology
- More insights in industrial applications is suggested
- Curriculum should involve value added, employability generated and skill development courses for students
- As per the current advancements of subjects, practical based teaching should be followed
- Internships should be encouraged. Add pm courses should be included and new value added courses should be added

Suggestions of teachers on M.Sc. Bioinformatics Curriculum:

- Timely improvements in syllabus are recommended
- Curriculum should be designed as per the industry requirements
- Periodic up-gradation is needed and changes in technology should be considered
- Revision of syllabus as per current technology should be a priority

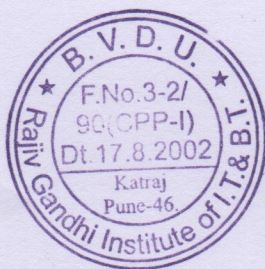
Suggestions of teachers on M.Sc. Biotechnology and Medical Biotechnology Curriculum:

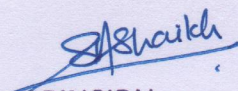
- More focus on skill development
- Regular revision of syllabus is essential to include newer emerging areas/topics in syllabus. Industrial exposure to students should be considered. Industrial internships should be part of syllabus. Students should earn credits for such internships. New value added / employability oriented and skill based courses should be added. Students should be oriented for life skills
- Linkage with industry should be encouraged
- Need more linkages with industries
- Needs improvements with regards to skill development, entrepreneurship and employability keeping in view future demands of healthcare sector

- Some advanced knowledge of self study and assessment done continuously as part of IA. Group presentations for improving scientific writing/oral communication skills and soft skill development
- Weightage for industry training should be included in PG curriculum
- The curriculum should be updated as per current topics. Industry academia interactive courses should be included

Action Taken:

- Feedback from all the stakeholders were considered for revision of B.Sc. Biotechnology curriculum
- The courses were redesigned to include the emerging areas and its industry applications
- The practical courses are strengthened to be able to provide hands on training and development of student's skills.
- Demonstration of advance practicals and visits to research institutes and industries are integral part of the curriculum
- Linkages to various industries and research institutes are developed for dissertation studies of M.Sc. programs
- The experience of every teacher in implementing the courses and the placement cell coordinator in placement of students are considered for overall revision of the curriculum




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