



St. Joseph's College (Autonomous)

College with Potential for Excellence

NAAC accredited at A grade in the third cycle

Irinjalakuda-680 121, Thrissur (Dt.), Kerala

Telephone: 0480 - 2825358, M.No. 8301000125

Email: info@stjosephs.edu.in

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Department of Biotechnology

Curriculum Feedback Analysis and Action Taken Report 2016-17

Feedback

- Since separate practical sessions were not assigned for Microbiology course, it was suggested from students that the basic practical classes could be included in the 'Environmental Biotechnology' lab course.
- Students suggested incorporating industrial visits that support the curriculum.
- There was a suggestion from the subject experts to modify the PG syllabus with respect to CSIR UGC examination pattern.
- Employers suggested to include basic calculations in biochemistry practical sessions

Actions taken

- Introduced the basic microbiology practical sessions as a separate certificate course titled 'Microbial techniques'
- It is decided to conduct an industrial visit every academic year even though it is not a part of the curriculum. The first experiment in Environmental Biotechnology second semester practical's (aerobic treatment of municipal sewage) is converted to industrial visit
- Revising PG syllabus in accordance with CIR examination syllabus was discussed in Board of Studies
- Board of studies recommended to include basic biochemical calculations in the undergraduate Biochemistry practical sessions.(BT3B04 (P))

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Curriculum Feedback Analysis and Action Taken Report 2017-18

Feedback

- There was a recommendation by alumnae to remove repetitions in the UG syllabus with respect to certain topics.
- New topics were suggested by the teachers to be incorporated in 'Environmental Biotechnology' paper.
- Model organisms were suggested to be included in 'Genetics' by the alumnae. To enhance the students' analytical skills problems related to linkage.
- The practical 'Production of antibodies through immunization' was requested to be removed as it requires permission from CPCSEA.
- The students proposed the addition of topics such as synthetic seeds, secondary metabolites etc. in the Plant Biotechnology course.
- Biosafety, biohazards and transgenic animals were suggested by parents to be added in the Animal Biotechnology paper.
- Introduction to proteomics and metagenomics were suggested by the subject experts to be included in the rDNA course.
- The students proposed in omitting repetitions in the PG syllabus with respect to certain topics.
- A few new topics are suggested by teachers to be incorporated in 'Microbiology' and 'Molecular biology'.
- The teachers suggested including a few innovative and relevant topics in 'Molecular biology' and 'Microbiology' paper.
- Employers suggested to include latest techniques in the PG syllabus

Actions taken

- Repetitions in the syllabus were omitted in undergraduate and the course was restructured after careful analysis. Since protein synthesis is detailed in molecular biology (BT5B07), and pathways in (biochemistry)BT3B03, the repetitions were removed in cell biology (BT1B01).
- New topics recommended by the teachers were supplemented into Environmental Biotechnology ((BT1C03, BT1C04(P) BT2C07, BT4C16(P), Genetics (BT4B06, BT4B05), Animal Biotechnology (BT6B14.), Plant Biotechnology (BT6B13, BT6B16(P)) and rDNA courses (BT6B15).
- The section in practical session "production of antibodies through immunization" was removed

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Department of Biotechnology Curriculum Feedback Analysis and Action Taken Report 2018-19

Feedback

- The subject experts pointed out corrections in the syllabus and requested for its revision.
- It was suggested by the employers to introduce Audit courses for upgrading the students with the latest employability trends
- There was a suggestion by the teachers to increase the number of elective papers for the PG course.
- In order to gain a wider exposure to the field of study and benefit their higher education, the parents suggested inculcating employment oriented seminars and programmes

Actions taken

- Suggested modifications were made in the syllabus
- For additional skills, audit courses were introduced for the first four semesters in UG and first two semesters in PG
- Elective papers was introduced in III Semester PG and the number of elective papers in IV semester PG was increased
- As per the suggestion an 'International Seminar on Trends in Microbiology and Molecular Biology' was conducted. An 'In-House Skill and Opportunity Workshop' was also organized in collaboration with Aeka Biochemicals Pvt Ltd. ,Triruvananthapuram.

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- As suggested by the teachers, new topics were included into the following papers - Microbiology, (GB1C3) Molecular Biology (GB2C3), Biomolecules (GB1C2), Genetic engineering (GB3C1) and Immunology (GB3C4).
- The practical "Large scale isolation of mesophyll cells from leaves" was removed from the Plant biotechnology practical session of Post Graduate syllabus.
- Topics like pyrosequencing and next generation sequencing was included in PG syllabus


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Curriculum feedback analysis and action taken report 2019-20

Feedback

- The cell signaling pathway in first UG is suggested to be more specific
- A new certificate course was recommended in lab safety and equipment for first UG students
- A few topics were suggested to be incorporated in the EBT, rDNA and PBT courses
- Basic calculations were recommended for Biochemistry practical
- It was suggested to remove the repetitions in Medical Biotechnology paper
- It was suggested by teachers to include cell sorting techniques in cell biology of PG programme
- Experts suggested to change the name of paper Biomolecules to Biomolecules and Biophysics
- A few new topics were suggested in Biomolecules, Microbiology and Bioprocess Technology, Plant biotechnology and Immunology.

Actions taken

- Cell signaling pathway was made more specific with GPCR signaling (UG)
- Introduced the suggested topics in EBT(SJBTY2C01),rDNA(SJBT6B15) and PBT papers (SJBT6B12)(UG) and repetitions from Medical Biotechnology paper was removed
- According to teachers' recommendations, basic calculations were added in Biochemistry lab course
- A new certificate course was introduced for first UG students Safety Measures in Lab and instrumentation
- Cell sorting techniques were included in cell biology (PG) (SJGBT1C01)
- The name of Biomolecules was changed to Biomolecules and Biophysics (PG)(SJGBT1C02)
- The suggested topics were added in Biomolecules , Microbiology(SJGBT1C03) ,Bioprocess Technology(SJGBT3C02), Plant biotechnology(SJGBT3C03) and Immunology(SJGBT3c04)

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Curriculum feedback analysis and action taken report 2020-21

Feedback

- Alumnae suggested to include topics from genetics in PG syllabus since it is important for entrance examinations
- Students suggested to remove repetitions from PG syllabus
- Faculty suggested to include topics on research methodology in syllabus

Actions taken

- Topics from genetics were added in SJGBT1C01 Cell Biology and SJGBT2C02 Molecular Biology
- Repetitions in in SJGBT1C01 Cell Biology and SJGBT2C02 Molecular Biology were removed
- Recommendations to conduct a Certificate course on Research Methodology for I PG students was made in Board of Studies

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