



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

Website: www.stjosephs.edu.in

Department of Microbiology & Forensic Science


Curriculum feedback analysis and action taken report 2018-19

Feedback

- According to the International Labour Organisation (ILO), India is staring at a 29 million skill-deficit by 2030. To address the increasing skill gap in India, the management of St. Joseph's College (Autonomous) Irinjalakuda and Employers proposed to start industry-relevant education and skill-based courses. Staff council suggested applying for vocational programs in a science and arts subjects for the academic year 2018-19.
- Faculty and Management suggested constituting a panel of academic and industry experts along with representatives of faculty, alumnae and students to formulate the curriculum of the vocational program.
- Collage council suggested starting of the new B. Voc program in Applied Microbiology and Forensic Science as a part of Zoology department.
- Students suggested in recognizing important days and events associated with Microbiology and Forensic Science to spread awareness about its importance among college and neighboring communities.

Actions taken

- Application for B. Voc Applied Microbiology and Forensic Science was accepted by UGC.
- Course curriculum was developed by considering the suggestions from the Faculty, Experts, Employees and alumnae. Curriculum was finalized by the board of studies and approved by academic council, governing council, parent university and the Kerala government.
- B. Voc Applied Microbiology and Forensic Science program was offered under the department of Zoology. The board of studies was also augmented to improve representation of experts of microbiology and forensic science.
- Two day long **Forensic Day** celebration was organized for the college community. Exhibition of forensic methodologies and techniques was conducted for the public.


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Curriculum feedback analysis and action taken report 2019-2020

Feedback

- First year students demanded to have a value-added course related to the Microbiology and Forensic Science so that the interested students would get an additional skill and gain requisite knowledge. Faculty members recommended in the implementation of a value-added course in Hazard Analysis Critical Control Point (HACCP), which could enhance the curriculum and improve employability
- Subject experts in the board of studies suggested for the increasing the number of equipment in the laboratory. This would complement the effective curriculum delivery. It was also suggested to revise the curriculum to incorporate advanced instrumentation and training.
- Considering the vocational nature of the program, management and subject experts demanded to organize events and activities which would enhance the teaching learning process and skill development.
- The students suggested in organizing innovative seminar and sessions that would provide an insight to the course contents of their study. It was proposed to include the recent areas of application of investigation and analysis techniques for the development of student skills.
- The employers suggested in emphasizing course contents of industrial based microbiology. The teaching faculty recommended in the revision of SDC2MB3.
- In order to ensure quality of the contents taught, there was a proposal from the College Council to practice Outcome Based Education in the delivery of curriculum.

Actions taken

- As per the suggestion from the students and faculty, HACCP based certificate course was introduced by the department of Zoology under the B. Voc Applied Microbiology and Forensic Science program. New value added courses was suggested for the subsequent academic years.
- Advanced equipment was purchased and installed in the Microbiology and Forensic Science laboratory. It was further forwarded to the Board of Studies to revise the curriculum based on the new facilities installed.
- Faculty members of the department has taken proactive steps to enhance teaching learning process by conducting a series of case studies based on cyber-forensic workshop and forensic movies telecast. Students are also encouraged to organize and participate in workshops and seminars within and Police Congress.



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- A National Level Hands on workshop called 'Cyber Forensic and Crime Investigation' was organized.
- Second Semester paper SDC2MB3 Environment Industrial Microbiology and Instrumentation techniques was converted to SDC2MB3 Environment and Industrial Microbiology. Section 3 on instrumentation techniques has been deleted from the paper. In second Semester SDC2FSC3 Criminology, Penology, Victimology, Forensic Psychology, section on instrumentation techniques from SDC2MB3 has been added.
- A decision was taken at the BOS meeting, to add programme outcomes, Programme Specific Outcome and Course Outcome to 2020 syllabus.

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Department of Microbiology & Forensic Science

Curriculum feedback analysis and action taken report 2020-21

Feedback

- Faculty members and subject experts suggested revising the PSO and CO of B. Voc. Applied Microbiology and Forensic Science .It was recommended to carry out remapping for the measurement of the attainment of the stated outcome.
- Based on the recent establishment of the equipment in the Microbiology and Forensic laboratory board of faculty members suggested syllabus revision to incorporate more of instrumentation in the curriculum. The students also proposed in the inclusion of workshops on advancements in instrumentation.
- Students identified the research and development possibilities of the programme and requested to provide research orientation as a part of curriculum.
- The faculty suggested in activities that could keep the students updated about the developing trends in the discipline. The feedback suggested in the updation of Newsletter based publications as a part of club activity.
- Feedback from the parents proposed on conducting a common activity or platform where candidates from any field of study can engage in. It was recommended to host a popular activity like quiz or poster making competition related to Forensic Study.

Actions taken

- PSO and CO was revised based on the feedbacks and expert opinion. Remapping was completed. It was approved by the Board of Studies for implementation.
- Board of studies evaluated the recent upgradation in the laboratory and approved the syllabus revision. Second semester core course SDC2FSC3 curriculum was revised to incorporate 'instrumentation' session.
- Research Paper presentation sessions were implemented to inculcate research aptitude among students. Webinar on *Advancements in Forensic, and Mutation Analysis, Bioinformatics & Docking* was conducted.



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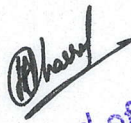
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- To update students about the recent trends, newspaper-based gathering on topics of *Microbiology & Forensic* were arranged consistently every 2nd week Thursday and 4th Week Thursday respectively every month online.
- Department of Microbiology & Forensic Science students created an opportunity to the general public, academicians and students to evaluate their forensic skills by arranging a forensic Puzzle week started from June 1st 2020 with a puzzle shared everyday through the Instagram page of the department. B.Voc students themselves acted as characters in the puzzle series and depicted a series of forensic puzzle challenges. An open platform displaying the solutions of each puzzle was available to the public the next day of each puzzle.


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