



# 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](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

## Department of Zoology

### Curriculum feedback analysis and action taken report 2016-17

#### Feedback

- Students, Alumnae and Parents are satisfied with the curriculum and curriculum delivery. Students suggested that the learning method should be focused on the smart class environment and virtual labs.
- B.Sc. Zoology and M.Sc. Zoology syllabi revisions were suggested by the faculty members of the department
- Some of the reference books suggested in the university curriculum was irrelevant or unavailable. Teachers suggested to update the reference books for the UG and PG syllabus.
- Curriculum feedback showed the increasing demand of job-oriented courses and entrepreneurship enhancing courses among students and employers
- Some of the employers and students had requested to include courses that would help the students to acquire self-employability.
- The students suggested modifying the campus for a subject friendly approach which is also beneficial for supporting the positive outlook of the college and raise its stature as a nature friendly campus.

#### Actions taken

- Board of studies discussed the possibilities of curriculum revision. For B.Sc. Zoology revisions were recommended for Biostatistics, Biochemistry, Endocrinology, Molecular Biology and immunology courses. Biochemistry and cytogenetics, Biophysics and Biostatistics, Physiology, Molecular Biology and practical course syllabus revisions are recommended for the PG program.
- Teachers and students were trained for handling advanced smart class rooms and virtual lab facilities. The use of ICT was promoted by timely updating digital equipment and facilities.
- Board of studies recommended to update all references book list. Old editions of books were replaced by the new updated editions. It was also directed to the Head of the Department to assure the availability of sufficient reference books in the library as well as in the stores.
- Board of studies member Prof. I. S. Bright Singh suggested to incorporate Aquaculture, Animal Husbandry and Poultry science as an elective course. Skill development program in Aquaculture was started in order to help the students to acquire self-employability.
- An innovative program by the students was hosted to make a bird friendly campus through the event '*Oru veedine oru Kaad*' and it was inaugurated by the Coordinator of Biodiversity Board, Thrissur District- Prof. Vincent E.J.

**Dr. GIGI POULOSE**  
Assistant Professor & HOD  
Department of Zoology  
St. Joseph's College (Autonomous)  
Irinjalakuda, Kerala, India - 680 121





# 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](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

## Department of Zoology

### Curriculum feedback analysis and action taken report 2017-18

#### Feedback

- An elaborated feedback survey was conducted by the Department of Zoology among Students, Faculty, Employers, Alumni, Parents and Academicians to revise the syllabus of B.Sc. Zoology and M.Sc. Zoology programs.
- M.Sc. Zoology students and parents suggested that the project work can be focused more on the techniques related works than the field visit. As it will improve their employability and research opportunities.
- For the B.Sc. Zoology and M.Sc. Zoology syllabus, students and faculty members suggested to update the practical sessions with recent and advanced topics.
- Students completed Open Course SJZO5D01 Reproductive Health & Sex Education give an impression that the curriculum is missing basics of 'Reproductive systems' in the syllabus. Faculty handling the session also had the same impression

#### Actions taken

- Board of studies analyzed the feedback from different stakeholders. As the university is limiting the extend of curriculum revision to a span of 20%, BOS prioritizes the recommendations and the following changes are made
- B.Sc. Zoology:

Semester	code	changes
1	ZO1B01T	Reef building corals and coral reefs included
2	ZO2B02T	Economic importance of mollusk included
3	ZO3B03T	Invasive fishes of Kerala included
4	ZO4B04T	Flight adaptations in birds included
5	ZO4B05P	Students expected to make sketches with notes of only mounting, dissections, osteology and histology.
	ZO5B07T	Social organization in honey bees included
	ZO5B09T	Molecular tools in taxonomy included
6	ZO6B10T	Factors influencing enzyme action included
	ZO6B11T	Composition and function of lymph in circulatory system included
	ZO6B13T	Types of placenta in mammals included
	ZO6B15(E) 01T	Three parent baby included



# 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

	ZOO617P	Electrophoresis included
5	ZO5D01 (Open Course)	Male and female reproductive system included

• M.Sc. Zoology:

Semester	Course code	Changes
1	ZO1CT02	Factors affecting electrophoretic mobility added in unit 9 Research design added in biostatistics as chapter 2
3	ZO3ET09	Addition of pedigree analysis
4	ZO4CT11	Disorders of vitamin metabolism added in unit 1

- The project work course of the M.Sc. Zoology offers the freedom for students to choose the research guide and institution. Department has set forth procedure for the selection of project topic, supervisor and the institution. A unit related with research design was introduced in the subject biostatistics coming under the course SJZO1CT02 Biophysics and Biostatistics.
- The syllabus revisions in the B.Sc. Zoology and M.Sc. Zoology syllabi took care to revise the practical so as to assure a relevant and updated application level learning experience. The recommendations were noted and sent for approval.
- Open Course syllabus of SJZO5D01 - reproductive health & sex education was revised by including 'Male and female reproductive systems' in the syllabus.

**Dr. GIGI POULOSE**  
Assistant Professor & HOD  
Department of Zoology  
St. Joseph's College (Autonomous)  
Irinjalakuda, Kerala, India - 680 121





# 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](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

---

## Department of Zoology

### Curriculum feedback analysis and action taken report 2018-19

#### Feedback

- Feedback from stakeholders including alumnae and employers suggested that the current curriculum need major revisions to improve the employability and skill development for the current job market.
- For B.Sc. Zoology, it was suggested that the students want to know advanced techniques and methods in the subject area under study
- Faculty members recommended the inclusion of more diagnostic related topic in the curriculum of M.Sc. Zoology
- As per the directions of UGC and college management, Department of Zoology drafted the application for the vocational program B. Voc Applied Microbiology and Forensic Science and submitted for approval.
- To tap out the best entrepreneurship opportunities that the program offered, it was recommended by the faculty to include revisions that could highlight the economic aspects concerning the employability factor through concepts that are deemed to be of high demand in the actual work arena and can offer a good knowledge base required for the same.



# 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](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

## Actions taken

- Major revisions are made in the core course curriculum including M.Sc. Zoology:

Semester II	ZO2CT04	Body mass index added in unit 1
	ZO2CT05	Lac Operon included in Ch. 7 Phylogenetic and adaptive diversification in gene families included in Ch. 10
	ZO2CT06	Reference added

- To enable the students to acquire more understanding on advanced techniques and methods in the subject area, they were taken to research institutes wherein they could observe and learn from experiments conducted using modern equipment.
- In the M.Sc. Zoology syllabus fourth semester course SJZO 4 EP05 - Human Genetics I & II is revised by adding practical session 'Diagnostic genetics.' Third semester elective course SJZO3ET09 Clinical Genetics is revised with 'pedigree analysis'.
- UGC has approved and given financial assistance for conducting the program. Board of Studies drafted the curriculum. The course started in the academic year 2018-19.

**Dr. GIGI POULOSE**  
Assistant Professor & HOD  
Department of Zoology  
St. Joseph's College (Autonomous)  
Irinjalakuda, Kerala, India - 680 121





**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](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

**Department of Zoology**

**Curriculum feedback analysis and action taken report 2019-20**

**Feedback**

- The university approved syllabus marked high satisfactory levels from the feedback collected yet required mandatory revisions for being up-to-date with the novel changes occurring the field. Subject related suggestions were given by the faculty to update B.Sc. Zoology and M.Sc. Zoology syllabus
- There were suggestions to include topics related to Gender studies in the curriculum
- The employers suggested in incorporating new changes or modification in the syllabus of the audit courses for the students to be familiarized with the recent developments in the field and supporting them with the adequate skills to implement the attained information in their tasks assigned.
- Few PG students suggested that some of the topics in their syllabus is repetitive and is causing confusion in understanding. They suggested either omitting the repetitive concepts or substituting them with relevant topics that can aid in boosting their prospects of entering the professional pathways.
- Students requested for a subject-area focused orientation session for pursuing higher studies abroad. They recommended inviting highly experienced resource persons who can guide them with the procedures and risk involved in opting different alternatives in the same area of study.

**Actions taken**

- In the UG syllabus following topics are included
  - SJ ZOL1B01T Animal diversity: Non-Chordata Part I- Reef building coral and coral reefs
  - SJ ZOL2B02T Animal diversity: Non-Chordata Part II- Economic importance of molluscs
  - SJ ZOL3B03T Animal diversity: Chordata Part I- Invasive fishes in Kerala
  - SJ ZOL4B04T Animal diversity: Chordata Part II- Migratory Birds in Kerala
- To give due importance to Gender Studies, the elective course was renamed as Human Genetics and Gender Studies (for 2020 admission)
  - SJ ZOL6B14(E) 01T- Human Genetics and Gender Studies – separate module on Gender Studies were added
- For PG program, following changes are made
  - SJZOL2C04 Physiology- Body max index
  - SJZOL3E09 Clinical genetics- Recombinant Pharmaceuticals



# 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](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

- SJZOL4C11 Diagnostic Genetics- Disorders of Vitamin metabolism-Hereditary Vitamin D Dependency Type 1 (VDDR- 1)-1-A-Hydroxylase Deficiency, Hereditary Vitamin D-Dependent Rickets Type 2 (VDDR- 2).
- Revisions are made in following courses
  - SJZOL5B07T - Biotechnology, Microbiology & Immunology
  - SJZOL5B09T - Methodology in Science, Biostatistics & Bioinformatics
  - SJZOL6B10T - Physiology & Endocrinology
  - SJZOL6B11T - Reproductive & Developmental Biology
  - SJZOL6B12T - Environmental & Conservation Biology
  - SJZOL6B13T - Ethology, Evolution & Zoogeography
  - SJZOL1 C01- Biochemistry and Cytogenetics
  - SJZOL1C03 - Ecology and Ethology
  - SJZOL3E09 - Clinical Genetics
- Based on the request from the employers certain changes and syllabus revision were implemented in the following audit courses for the PG courses:
  - SJAUZOL1A01 – Climate Change – Life on Earth
  - SJAUZOL2A02 – Museum Curation Skill
- The disordered portions in the syllabus have been arranged in an orderly manner and new portions have been introduced in the place of replacement. Topic on rDNA were introduced in SJZOL3E09- Human Genetics I – Clinical genetics, that intends to give a new strategic pathway to enter in to a professional field
- An annual webinar series 'Women in Life science' (WIL) was initiated. The first of the series was guided by Dr. Nishana M., Post-Doctoral Fellow from New York University Langone Medical Center, USA. The sessions were organized for students to make them aware of avenues for higher studies in the subject.

**Dr. GIGI POULOSE**  
Assistant Professor & HOD  
Department of Zoology  
St. Joseph's College (Autonomous)  
Irinjalakuda, Kerala, India - 680 121





**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](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

---

**Department of Zoology**

**Curriculum feedback analysis and action taken report 2020-21**

**Feedback**

- Students expressed the need for more live classes instead of recorded online classes conducted because of the pandemic. As live classes provide them with the chances of on spot clarifications and improved rapport with the peers and tutors.
- Parents and students expressed their concern about the internal examination procedure. The process of online examination possessed anxiety among students and parents concerning the authenticity of conducting online examinations and assessing students' academic progress.
- SJZOL1C03 - Ecology and Ethology practical, faculty members suggested alternatives for the 'field trip' which required on site visits and observations. This posed as a hurdle to overcome during the pandemic and needed an alternative means to achieve the targeted objectives stated in the course plan.
- Requests were made by students to give more focus on clearing competitive exams. Interrupted normal classes, difficulty in accessing library resources and direct coaching from the tutors; the students were apprehensive in clearing the competitive exams in their subjects.
- Citing the need for overall coverage of the syllabus and its application in the real world, the alumnae suggested in hosting or conducting webinars for guiding the students to be focused in their subject.

**Actions taken**

- More online classes were conducted through Google Meet, and its recorded versions were also made available to the students. Time was spared especially for clarification, identification of weak student and remedial classes.
- Board of Studies formulated the rules and procedures for the conduct of the Continuous Assessment through online mode. It was communicated to the students and parents to avoid confusion. A video demonstrating the accessing of information were sent to the parents and students for their convenience. Anytime clarifications with the concerned teaches were also encouraged for the purpose.
- Board of Studies discussed the matter and resolved to conduct online virtual field trips for SJZOL1C03 - Ecology and Ethology practical until the situation become normal. The teachers were instructed and trained for the process of conducting virtual field trips.





## 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](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

---

- The faculty members organized an orientation session to students on clearing competitive exams. Important resource materials and regular online mock examinations were decided to be a part of the routine mode of study.
- As part of increasing their interest in the subject and for improving their hold in the topics the following webinars were organized:
  - DNA origami - How does our genome fold?
  - Ethics in Research
  - Food Borne Trematodiases With Special Emphasis on Fascioliasis'
  - How to Read Scientific Literature & Introduction to Manav

**Dr. GIGI POULOSE**  
Assistant Professor & HOD  
Department of Zoology  
St. Joseph's College (Autonomous)  
Irinjalakuda, Kerala, India - 680 121