

# **Annual Report of the Institution 2018 - 2019**

**ST. JOSEPH'S COLLEGE (AUTONOMOUS)  
Irinjalakuda, Thrissur Dist., Kerala**



## ANNUAL REPORT OF THE INSTITUTION 2018-2019

St. Joseph's College (Autonomous), Irinjalakuda deepens its strategies for quality education and holistic development of the students in a focused and orderly manner with the IQAC monitoring its quality initiatives at every step. The academic year of 2018-2019 began with a lot of enthusiasm and plans for a productive year. Unfortunately, by the mid of the academic year, the state of Kerala was hit by the drastic floods of 2018. Though there were slight and minor alterations in the academic schedule, the college was successful in implementing almost all and perhaps even more activities during the academic year that altogether raised the institutional performance. The community relief activities and the social values that it deciphered for the students are beyond appreciable. The following report summarises the performance of the college criteria-wise for this academic year.

**Criteria 1:** This criterion deals with the curricular aspects and the factors that make the curriculum followed in the institution beneficial for the student's development. During the academic year of 2018-2019, the college has entered in serious efforts in the process of curricular revisions. Nearly 28 course programs have undergone revision showing the interest of the institution in constantly upgrading its base of theoretical knowledge. It is also interesting to note that almost all of the courses adopted in the curriculum are employability/entrepreneurship oriented guaranteeing career prospects for the learners of this curriculum.

| Programmes for which syllabus revision was carried out during the Academic year |                |                                     |
|---|----------------|-------------------------------------|
| Name of Programme   | Programme Code | Programme Specialization            |
| BA  | ECO            | B.A ECONOMICS                       |
| BA  | ENG            | B.A ENGLISH LANGUAGE & LITERATURE   |
| BA  | HIS            | B.A HISTORY                         |
| BCom  | BC             | B.COM                               |
| BSc   | BT             | B.Sc BIOTECHNOLOGY                  |
| BSc   | BOT            | B.Sc BOTANY                         |
| BSc   | CHE            | B.Sc CHEMISTRY                      |
| BSc   | MAT            | B.Sc MATHEMATICS                    |
| BSc   | PH             | B.Sc PHYSICS                        |
| BSc   | PSY            | B.Sc PSYCHOLOGY                     |
| BSc   | ZO             | B.Sc ZOOLOGY                        |
| BBA   | BB             | BBA                                 |
| BCA   | BCA            | BCA                                 |
| BSW   | BSW            | BSW                                 |
| MA  | MEC            | M.A ECONOMICS                       |
| MA  | Een            | M.A ENGLISH LITERATURE              |
| MA  | MAL            | M.A MALAYALAM LITERATURE            |
| MA  | MCJ            | M.A MASS COMMUNICATION & JOURNALISM |
| MCom  | MC             | M.COM                               |

|      |     |  |
|------|-----|--|
| MSc  | GB  | M.Sc BIOTECHNOLOGY                             |
| MSc  | BO  | M.Sc BOTANY                                    |
| MSc  | CH  | M.Sc CHEMISTRY                                 |
| MSc  | CSS | M.Sc COMPUTER SCIENCE                          |
| MSc  | MT  | M.Sc MATHEMATICS                               |
| MSc  | PHY | M.Sc PHYSICS                                   |
| MSc  | ZO  | M.Sc ZOOLOGY                                   |
| MSW  | SW  | MSW  |
| BVoc | SDC | B.Voc. APPLIED MICROBIOLOGY & FORENSIC SCIENCE |
| BVoc | MMA | B.Voc. MALAYALAM AND MANUSCRIPT MANAGEMENT     |

25 course programs have implemented the CBCS/Elective course system giving the students the flexibility to choose their course of study in the institution. In order to enrich the curriculum, 36 new value-added courses were introduced and it recorded good student enrolments pointing to the attempts that the institution takes in quenching the cognitive needs of the students. A good number of students have taken up field/internship programs during the academic year that promises in delivery of pragmatic as well as intellectual knowledge to the aspirants. This criterion also specialises in the efforts embarked by the institution in maintaining the quality check of the curricular aspects through a systematic and reliable means of feedback mechanism from the stakeholders. It is found that the college has a well-developed and organised method of feedback mechanism monitored and managed by the IQAC of the college that collects, analyses and identifies areas of improvements as seen from the viewpoints of the stakeholders. The feedback system was neatly carried out and the observations have been duly forwarded to the authoritative bodies for consideration.

**Criteria 2:** The focus of this criterion rest with the aspects of teaching-learning and evaluation. It is demarked into different sections that address the notions of efficiency of the institution in catering to the different and unique needs of the student population and parameters that measure the competence in terms of student-teacher ratio, faculty quality and evaluatory modes. The college has been able to maintain a good demand ratio for its offered course programs keeping in consideration the rate of student enrolment in the present academic year. Adequate number of teachers is made available in order to meet the educational needs of the vast number of students in both undergraduate levels and post graduate levels. Nearly 150 teaching positions have been filled in by qualified professionals out of which 23 were filled in during this academic year. The subject experts appointed have been constantly polishing their area of expertise through various recognitions and awards received at local, national and at international levels. There are 80 ICT enabled classrooms and 55 smart classrooms at the disposal of the teachers to utilize the technological facilities for delivering a creative and impressionistic learning experience for the students at the institution. Darshana- an on-campus counselling facility is established to cater to the psychological needs of the students aiding in striking a balance between the academic and personal well being of the students. This shows the prominence involved in establishing a well operative mentoring system in the institution. The teachers and students forming a mentor-mentee bond in the ratio of 1:18 also enhances the branches of mentoring established in the college. In view of the process of evaluation adopted by the institution, there are

reportedly only negligible number of complaints received during this year out of which all were immediately and satisfactorily resolved. The pass percentage of the students is good and the student satisfaction survey conducted shows the overall satisfaction of the student population with institution.

**Criteria 3:** This category throws light at the efforts partaken by the institution in supporting the research, consultancy and extension activities in the campus. The research activities of the college are found to be average. Seed money is provided from the college for genuine and productive causes of research from the faculty. Dr. Aneesh E. M was able to secure a national level UGC travel grant for research purposes. There are several major and minor ongoing projects funded by different state and national agencies for research which can be improved in the upcoming years. This year 5 teachers were awarded with Ph.Ds and approximately 8 international research publications were made by the faculty. The departments of Botany and Zoology have the maximum number of books/chapters edited in books/volumes published at national and international conferences and seminars. The average citation index and h-index has also been maintained at a good level.

**h-Index of the Institutional Publications (based on Scopus/ Web of science)**

| Title of the Paper  | Name of Author   | Title of journal                       | h-index |
|---|--|--|---------|
| Non-conventional yeast cell factories for sustainable bioprocesses.                               | Rebello, S., Abraham, A., Madhavan, A., Sindhu, R., Binod, P., Karthika Bahuleyan, | FEMS microbiology                      | 4       |
| Role of gut inhabitants on vectorial capacity of mosquitoes                                       | Lekshmi Jayakrishnan, Ambalaparambil Vasu Sudhikumar, Embalil Mathachan Aneesh     | Journal of Vector Borne Diseases       | 4       |
| Larvicidal activity of phytoextracts against dengue fever vector, <i>Aedes aegypti</i> - A review | Lekshmi Jayakrishnan, Ambalaparambil Vasu Sudhikumar, Embalil Mathachan Aneesh     | Plant Science Today                    | 4       |
| <i>Hypericum japonicum</i> : a Double-Headed Sword to Combat Vector Control and Cancer            | Sreedev PuthurA. N AnoopkumarSharrel RebelloEmbalil Mathachan Aneesh               | Applied Biochemistry and Biotechnology | 4       |
| Dye-sensitized solar cells based on an electrospun polymer nanocomposite membrane as electrolyte  | Mini Thomas, Sheeja Rajiv  | New Journal of Chemistry               | 8       |
| Extracellular matrix and traumatic brain injury   | Naijil George, Herbert M Geller  | Journal of neuroscience research       | 10      |

The college has been enthusiastic in organising workshops and seminars on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices for its faculty during the academic year and this has been reflected through the various prominent recognitions and awards obtained by the teachers of the institution. It is noted that the faculty are constantly being motivated to attend, participate and share their wealth of knowledge as resource persons in seminars and conferences at national, international and local levels to refine their quality of pedagogical approaches. The different departments of the college have taken up serious start-up initiatives that highlight the institutional support for entrepreneurial development. The consultancy practices at St. Josephs are going well with a good amount of revenue generated through consultancy. It is a good aspect that almost all the students of the college have volunteered to participate in the extension activities organised by the college incorporating several internal and external agencies are praiseworthy and has been duly awarded for its social service activities by few state level agencies. The excellent collaborative exchange of teacher-learner resources in the form of MoUs signed with institutes and organizations of repute will certainly help the college to gain a better insight in its future academic endeavours.

**Criteria 4:** An institute should possess the necessary facilities that can provide for the rich learning experience by meeting the educational needs of its diverse student population. This criterion evaluates the infrastructural capacity and learning resources available that can help the college in delivering updated means of sharing education to its students. It has been noted that the institution has carefully utilized the available funds in a judicious manner to update its infrastructural capacity despite the hindrances caused due to the Kerala floods of August 2018. The major updation was brought in harnessing technological advancements into the classrooms in the form of ICT facilities. This is a good start by the college to equip the students in the technological advancements by familiarising them with the working of educationally beneficial learning devices. The software in the library was also updated to its latest version enabling faster and smoother user-friendly interface. Upon clear demand and discretion of the subject experts, new textbooks and reference materials were purchased and made available in the library. An average quantity of e-content was also supplemented by the faculty through different learning platforms like MOODLE and LINWAYS. Considering the technological advancements made by the college, the number of systems was upgraded to 261 and the bandwidth of the network was also increased to enhance faster data transmission. The availability of the e-content studio further adds to the worthwhile technological initiatives undertaken by the institution. Apart from initiating infrastructural and learning advancements in the campus, the institution has also shown deep interest in maintaining the existing and newly added resources of the college with the support of the maintenance/ground staff and under the guidelines of the strictly followed maintenance policy that is sensitised to the faculty, staff and students during the initiation of every academic year.

**Criteria 5:** Besides the external leaps of advancements in the campus, this criterion gives a picture of the student progression activities held in the campus in the form of scholarships, skill development activities and career placements. The academic year of 2018-2019

witnessed high number of capacity enhancements programs for the students that aided the students in developing an ambitious attitude in the career trajectories and the college has also been able to support the students' academic endeavours in the forms of scholarships and concessions. There has been rigorous coaching provided in the college for the students in qualifying competitive examinations as well as guidance on career formation and personality development. As a result, a very good number of students were able to qualify different competitive examinations held at different levels. Being an institute that accommodates the several programs and activities, it is bound to possibilities of friction arising at the campus. For this, the college has a well-managed transparent and timely mechanism for the grievance redressal purposes. It is relieving that all the grievances received were resolved satisfactorily at the earliest. There has been averagely good student placements and the student progression towards higher education is also considerable. The rise in the sports and cultural activities is very enthusiastic this academic year for the college with prizes and recognitions received at university, state, national levels and international levels. Ms. Sruthy M won gold medal internationally in the South Asian Games and Ms. Anusree K P was placed as the Indian Volleyball Captain in the BRICS Games Held at South Africa which can be considered as proud moments of recognitions received by the college. The student council of the college is functioning very actively as can be seen through the participation of the students in several eminent programs, committees and activities of the college. The college values the alumni representations and association reunites every year during January 26<sup>th</sup> to show their support in the growth of their alma mater. They played a crucial role in supporting the institution during the Kerala Floods thereby becoming an icon of social commitment and contributing their valuable feedbacks for the overall advancement of the college.

**Criteria 6:** The governance, leadership and management procedures of the institution is dealt in this criterion. Fostering decentralization and participative management, the college indulged in curricular restructuring through decentralization and participation. The allocation of funds also works via the same decentralized modes for maintaining transparency in the transactions. The responsibilities and working of the college is divided equally amongst different committees, associations and units that function as one body to deliver excellent educational service. The developmental strategies of the college beginning with the admission procedures of the students are carried as per the university and governmental norms and regulations; followed by the curriculum that is augmented by several unaided unaffiliated add –on courses aimed at enriching the conventional degree programs, by various departments; the teaching learning processes are strictly monitored under the scrutiny of the IQAC of the college to ensure the quality of education and; the examination related activities are taken care of by computerized process (AMS) resulting in the conduct of examination and the publication of results being held at a good time pace. Considering the research activities ongoing in the campus, the college has the potential to undertake more productive and beneficial research initiatives from its excellent faculty and students. The library of the college contains adequate number of reading materials and the ICT facilities, infrastructure and instrumentation are well maintained. The institution has been able to implement e-governance in almost all of its administrative, academic and technical task starting from planning the strategic plan of the college to its financial aspects. It is promising to notice that

the college employs good faculty empowerment strategies to uplift its faculty base in the forms of FDPs and SDPs within and outside the college.

### Faculty Development programme organised

| Date       | Programme Name   |
|------------|--|
| 05-10-2018 | Introduction to Vocology—Voice production science & techniques     |
| 08-10-2018 | Faculty development program on 'How to Excel'                      |
| 15-11-2018 | FDP on Reference Management  |
| 29-11-2018 | Faculty and staff development program on “Academic Administration” |
| 08-03-2019 | Hands on Training session on ‘Computational Skills in Teaching’    |
| 12-03-2019 | Faculty Development Program on ‘File Management’                   |

### List of faculty attended FDP

| Name of teacher   | Title of the program   | Duration                |
|-------------------|--|-------------------------|
| Naijil George     | eAssessment: Process and Tools   | 19-06-2018 - 25-06-2018 |
| Kavitha O         | Refresher Course   | 24-10-2018 - 13-11-2018 |
| Siby Linson       | Faculty Development Program entitled Induction training programme in social science for college teachers from Kerala | 10-12-2018 - 19-12-2018 |
| Elizabeth Paul C. | UGC sponsored refresher course in Commerce and Management  | 18-07-2018 - 07-08-2018 |
| Rogie George      | WORKSHOP ON FINANCIAL DERIVATIVES AND RISK MANAGEMENT  | 11-06-2018 – 11-10-2018 |
| Daisy P K         | Refresher course- Curriculum Design and e-content development  | 02-11-2018 - 30-03-2019 |
| Beena C A         | Orientation programme  | 14-11-2018 - 11-12-2018 |
| Sujitha V S       | Refresher, University of Calicut   | 03-02-2018 -22-03-2018  |
| Sajo Jose         | Refresher Course in English Language, Literature & Culture   | 08-01-2018 - 02-02-2018 |
| Anju Antony       | UGC sponsored Orientation Programme, University of Madrass   | 16-08-2018 - 12-09-2018 |
| Sonima K K        | Refresher, University of Calicut   | 02-03-2018 - 22-03-2018 |
| Sumina M S        | UGC sponsored orientation program  | 14-11-2018 - 11-12-2018 |
| Dhanya V S        | Research Orientation Programme   | 13-08-2018 - 14-08-2018 |
| Stalin Raphel     | Refresher Course on Physical Educationa and Yoga   | 12-03-2018 - 31-03-2018 |
| Binu T V          | Faculty Development Programme for FLAIR Members  | 11-02-2019 -20-02-2019  |
| Binu T V          | Short run course on Professional Development   | 22-03-2019-28-03-2019   |

|                |   |                         |
|----------------|---|-------------------------|
| Shimi K S      | Two Day Hands-on-workshop on HPLC,FTIR,DNA Isolation and sequencing   | 28-28 January 2019      |
| Bibitha Joseph | Orientation   | 26-04-2019-23-05-2019   |
| Siji P D       | UGC Sponsered Refresher Course in Computer Science                    | 13-02-2019 - 05-03-2019 |
| Daisy P K      | K N Raj Teachers Training Programme for College Teachers in Economics | 18-03-2019 - 12-04-2019 |
| Beena C A      | Short run course on professional development                          | 22-03-2019 - 28-03-2019 |
| Benoy Anand    | Orientation Programme   | 05-03-2019 - 29-03-2019 |
| Gigi Poulouse  | UGC sponsored refresher course  | 18-03-2019 - 07-04-2019 |

The institution has been timely in conducting the regular external and internal financial audit for this academic year. The IQAC of the college is working efficiently and maintaining strong working bonds with all the supporting committees. Organising FDPs and SDPs, ensuring meeting of the quality parameters through NIRF and AISHE and implementation of quality endeavours in the campus fall under the supervision of this committee and has been carried out dutifully.

**Criteria 7:** Institutional values and best practices of the institution are the areas of highlight in this criterion. Being a women's only college, the need for institutionalising a good value system and creating a gender perception remained as a top priority. Hence, the college was seen enthusiastic in organising events and programs that promoted the concept of gender equity and self-empowerment during the academic year. It has also taken efforts to awaken the value of social commitment through community programs especially the relief activities during the floods were praiseworthy and was able to impart the value of inclusiveness among the students. Furthermore, the flood relief activities and other environmental based activities held in the campus has been capable of creating an environmental consciousness that cater to the formation of universal values and ethics among the students. The college building is ample to address the needs of the physically handicapped and has strived to maintain an infrastructural design that is disable friendly. The codes of conduct are developed for everyone and are being constantly monitored and revised for effective implementation. The initiatives by the college in creating an eco-friendly campus are appreciable; vermi-composting, organic manure, waste management techniques, rainwater harvesting, water audits are some of the most notable activities being carried out in the campus. The college was successful in imparting social values and a practical ethical system through its best practices that focus on bringing together learning and fulfilment of social responsibilities and awakening of environmental consciousness amongst its students.