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XAVIER BOARD OF HIGHER EDUCATION IN INDIA

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ACADEMIC AUDIT REPORT OF THE DEPARTMENT OF MATHEMATICS


SACRED HEART COLLEGE (AUTONOMOUS), THEVARA, KOCHI

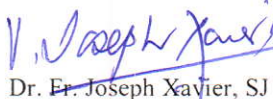
The Academic Audit of SACRED HEART COLLEGE (AUTONOMOUS), THEVARA, KOCHI was conducted from 19th to 21st December, 2018. The team comprised:

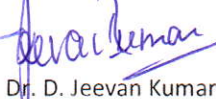
- **Dr. Sr. Annamma Philip**, FMM, Secretary General, Xavier Board of Higher Education in India, (XBHEI), Bangalore & former Principal, Stella Maris College (Autonomous), Chennai,
- **Dr. Fr. Joseph Xavier SJ**, former Principal, Loyola College (Autonomous), Chennai and former President, XBHEI,
- **Dr. D. Jeevan Kumar**, former Prof. of Political Science, University of Bangalore and currently Hon. Professor at Karnataka State Rural Development and Panchayat Raj University, Gadag, Karnataka
- **Dr. Ms. Ordetta Mendoza**, Member, XBHEI and former Head, Dept. of Bioinformatics, Stella Maris College (Autonomous), Chennai, and Co-ordinator, Xavier Board-Administrative & Academic Audit (XB-AA Audit).

Prior to the visit, the department completed and submitted the Audit Manual developed and deployed by Xavier Board of Higher Education in India.

Dr. Sr. Annamma Philip, FMM, visited the Department of Mathematics on 19th December 2018 and interacted with the Head of Department and faculty. Earlier, Mr. M. P Sebastian, HoD made a presentation to all the team members followed by an interaction. A verification of the relevant


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documents and visit to the facilities of the department was carried out by Dr. Sr. Annamma Philip, FMM.

About the Department:


The department of Mathematics was started in 1982 and offered an Undergraduate programme in Mathematics. In 1999 the department began offering the Post Graduate Programme in Mathematics.

The Vision of the department is to mould an enlightened community of wisdom seekers in Mathematics, founded on a relentless pursuit of excellence, inculcating moral values, discipline and faith in God.


Mission of the department is to provide an environment that facilitates, holistic development of the individual, enabling the students to develop a focused approach to their curriculum, inculcate quantitative skills and logical thinking ability to solve critical and complex problems in day-to-day life. The mission of the department is also to develop the capacity of the students to cater to the needs of the humanity and transform the society and inspire students to crave for deeper knowledge in Mathematics.

Commendations:

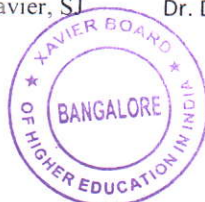
- The curriculum of the department is in keeping with the vision and mission of the college and has relevance to the local, national and global needs.
- The department has incorporated courses and activities that integrate cross cutting issues relevant to the environment and sustainability into the curriculum.
- Feedback on the curriculum is obtained from Students, parents, Members of Board of Studies and Alumni/alumnae.
- The demand for the UG programme is good with an average demand ratio of 45:1 and 16:1 for the PG programme.
- All faculty prepare a teaching plan which is given to students.
- Learner-centric methods (problem solving methods), assignments, projects, study tours and field trips are employed by the faculty to enhance teaching-learning.


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- Teacher: student ratio is approximately 1:16 for the UG and PG programmes.
- Students are mentored for approximately 3 hrs. in a semester with the mentor to mentee ratio being 1:15.
- Currently standing at over 90%, the department may provide extra care to increase the pass percentage in UG programme.
- Students are encouraged to participate in academic programmes at the intercollegiate level.
- Basic Mathematics Learning Programme (BMLP) are offered for students opting for interdisciplinary courses.


Recommendations:

- ✓ The department has to elucidate Programme outcomes, programme specific outcomes and course outcomes. The same to be uploaded on the college website.
- The department may offer value – added courses and add – on courses for imparting transferable and life skills.
- ✓ Slow learners maybe given more attention just as advanced learners.
- ✓ More workshops / seminars and guest lectures maybe organized regularly for the students in order to give them opportunities to interact with experts.
- ✓ Faculty members to complete Ph.D. / obtain the qualification as per UGC criteria.
- ✓ Faculty maybe encouraged to attend seminars and conferences, etc.
- ICT infrastructure in the department maybe increased.
- The department may make efforts to attract students from across the country.
- Students of this department may be encouraged to take courses offered by other departments.
- Information regarding books and journals held in the Central Library pertaining to the subject may be furnished to the department.
- Department needs adequate number of support staff.
- Teachers from other states may be recruited if possible.
- ✓ Number of students passing NET /SET /GATE in the last three years is very low. More efforts maybe made to increase the same.


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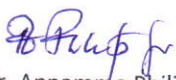


- ✓ Encourage students to get involved in extension activities.
- ✓ Information provided in the manual should be accurate. Typographical errors to be avoided.
- ✓ Alumni/ae engagement to be enhanced, both for financial and non-financial support.
- ✓ The few private scholarships for students available in the department may be increased with the help of alumni/ae.

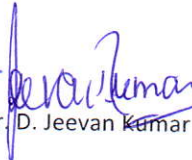
Date: 12/02/2019


Place: Bangalore




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