

## **PROFILE**

### **DEPARTMENT OF MATHEMATICS**

#### **ST. EDMUND'S COLLEGE, SHILLONG**

#### **HISTORY OF THE DEPARTMENT**

The Department of Mathematics had a humble beginning. The official strength of the department during its inception in **1937** was one. The Head of the Department was Prof. Sakti Ranjan Bhattacharjee. However, some Christian Brothers also lent a helping hand to the Department. Prof. Sakti Ranjan Bhattacharjee continued as Head of the Department till 1954. In 1953, Prof. Guru Prasad Gupta joined the Department. He took over as Head of the Department in 1954. Prof. Tarun Chandra Deka joined the Department in August 1957 and Prof. Prithish Dutta joined in June 1958. The strength of the Department increased with the induction of Prof. Gopinath Sarkar in March 1960, Prof. Ashok Kumar Chakraborty in August 1960, Prof. Arun Kumar Biswas in May 1961, Prof. Dombeswar Nath in 1961 and Prof. Sisir Kumar Bhattacharjee joined in 1962. Prof. L. N. Tluanga joined in 1966 and Prof. Jayanta Lahiri joined in 1968. In 1975 Prof. Guru Prasad Gupta passed away and Prof. Prithish Dutta took over as Head of the Department. Mr. Sibnath Bose joined the Department in the year 1979. Prof. Jayanta Lahiri took over as Head in April 1994. Prof. Dipankar Deb joined in 1994, Prof. Kit Kupar Dympep joined in 1995 and Bro. A. Len Naronha joined in 1999. Prof. Sonali Sengupta joined in 2001. Prof. Jibitesh Dutta joined the college in 2002. Dr. Sibnath Bose took over as the head of the department in 2005. Prof. Manbhalang Chyne joined in February 2005 and Prof. Gregory Jala Kharbhih joined in May 2006. Prof. Sabari Sarkar joined the Department of Commerce in the year 2007 and was inducted to the Department of Mathematics in the year 2010. Prof. J. Touthang joined the department in the year 2009. Prof. Bankhrawn Dkhar joined in June 2011 and Prof. Erickson Syiemlieh joined in August, 2011. Prof. Kerri Maphi Tiewsoh joined the Department in May 2014.

#### **NUMBER OF TEACHING POSTS**

<b>Posts</b>	<b>Sanctioned</b>	<b>Filled</b>	<b>College Post</b>	<b>Filled</b>
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Professors	Nil	Nil	Nil	Nil
Associate professors	1	1	Nil	Nil
Asst. Professors	4	4	1	1

## FACULTY PROFILE

Name	Qualification	Designation	Specialization	No. of years of Experience
Dipankar Deb	M.Sc.	Associate Professor	Number Theory	20 years
Manbhalang Chyne	M . S c . , NET(JRF)	Assistant Professor	Numerical Analysis	10 years
Gregory J. Kharbhih	M.Sc., NET	Assistant Professor	Algebra	9 years
Sabari Sarkar	M.Sc.	Assistant Professor	General Relativity	8 years
Bankhrawnam Dkhar	M.Sc., M.Phil., NET (JRF)	Assistant Professor	Number Theory	3 years
Kerri Maphi Tiewsoh	M.Sc., NET	Assistant Professor	Operations Research	5 years

## COURSE OFFERED

The Department offered B.Sc. (Honours) course in Mathematics. The department also took active part in interdisciplinary courses offered by others Department such as B.C.A., B.Com, and Biochemistry.

## REMEDIAL AND TUTORIAL CLASSES

Being considered as one of the most difficult subjects, mathematics is not learned by mere lecture process. That is why we as teachers of mathematics think that it is necessary to conduct remedial and free tutorial classes for students (especially for the students majoring in mathematics). Remedial

classes are meant for the weaker students whereas tutorial classes are meant to strengthen the mathematics problem-solving skills of students. Since 2005, the department has been conducting these classes and they have yielded tremendous results.



### **PARTICIPATION OF TEACHERS IN THE ACADEMIC AND PERSONAL COUNSELING OF STUDENTS**

Individual care is taken for different problems faced by students by mentoring and counseling process.

### **LEARNING RESOURCES OF THE DEPARTMENTS – LIBRARY, COMPUTERS, LABORATORIES AND OTHER RESOURCES**

- (a) There are more than 2250 mathematics books in the main library. There is also a Departmental library with around 200 books.
- (b) There is a Mathematics laboratory with 14 computers. In view of the increasing use and applications of mathematics in science and technology, especially computer technology, the college felt that it is important to set up a mathematics laboratory for the students majoring in mathematics. Thus, in the year 2005 the mathematics laboratory was set up. Since then the students are opting for computer-oriented courses in mathematics.



(c) Internet facility (broadband) is available in the department.

(d) Some classrooms are equipped with ICT facilities.

### STUDENT PROFILE PROGRAMME/COURSE WISE

The teacher-student ratio in the Department is 1:15

Name of Course	Applications received	Selected	Enrolled		Pass percentage
			Male	Female	
B.Sc. (Honours)	45	28	19	9	96%

### Diversity of Students

Name of Course	% of students from the state	% of students from other states	% of students from abroad
B.Sc. (Honours)	60%	40%	0%

## **PLAN OF ACTION OF THE DEPARTMENT FOR THE NEXT FIVE YEARS**

- To train the students in using the computer related mathematical tools and softwares like Mathematica, MatLab, Maple, etc.
- To organize State-Level and National Level Workshops/Seminars for students and teachers of the various schools and colleges.
- To undertake minor research projects under the UGC scheme involving the students.
- To organize awareness programmes on mathematics in different villages of the state, especially in the backward areas.
- To start a course on Basic Mathematics for students of non-mathematics background. The aim is to help our students with no mathematics background got a grip on some basic mathematics.

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