



**ST FRANCIS DE SALES COLLEGE**

Permanently Affiliated to Bangalore University | Electronics City, Bengaluru - 100

Accredited with NAAC "A" Grade || Recognised under 2(f) & 12(b) of the UGC Act  
A FRANSALIAN INSTITUTE OF HIGHER LEARNING

## **SEMINAR ON ROLE OF MATHEMATICS IN SCIENCE AND ENVIRONMENT RESEARCH**

**DATE : 19 – 20 SEPTEMBER 2019**

**ORGANIZED BY :**

**Department of Science, Research and IP  
Cell,  
St, Francis de Sales College**



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## A report on Two-Day Seminar on Role of Mathematics in science and environment Research

**Date: 19-20 September 2019**

**Organised by: Department of Science, Research and IP Cell, St. Francis de Sales College**

A two day National seminar on Role of Mathematics in Science and Environmental Research for undergraduate and post graduate students was held on 19<sup>th</sup> and 20<sup>th</sup> September 2019. Postgraduate as well as graduate students from various colleges attended and presented papers under the subthemes material science, nanotechnology, analytical techniques communication system, embedded system, numerical analysis, discrete mathematics and graph theory.

There were 20 paper presentations. Other than the students from St. Francis de Sales College, students from 6 colleges participated in this session with a total of 94 participants. The presentations were chaired by Dr B Chandrasekhar from Sacred Heart College, Tirupatur and Dr. Jeniffer, Oxford College of Science, Bangalore. The certificates, memento and cash prize for best presentations were distributed in the valedictory session.

### Day 1: 19 September 2019

The inaugural session commenced at 09.30 am. The gathering was welcomed by Ms. Roshini, V SEM BSc (MEC) read the profiles of the Chief Guest and the keynote speaker. A floral welcome to Dr B Chandrasekhar, the keynote speaker for the session was offered by Prof. Smrutee Markhedkar, HoD, Department of Science and Prof. Roshini Anne Koshi, Assistant Professor in Mathematics, Department of Science welcomed the Chief Guest. The seminar was inaugurated by Dr. Mohammed Imrozuddin from CMS Jain College. Dr. Imrozuddin stressed that co-ordination of knowledge from other disciplines would go a long way in solving problems in society and advised the students to continue their quest for knowledge through research.

Dr. B. Chandrasekhar spoke on the need for scientific approach and Mathematics in today's dynamic environment. Dr. Chandrasekhar said that Mathematics is a tool to strengthen innovation. An expert in the field of applied mathematics, he said the speaker could reach out extensively.

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to the young research aspirants. Rev. Dr. Roy, Principal and Vice Principal Fr. Jijo Manjackal expressed their words of appreciation and acknowledgement for conducting a seminar on a topic of much relevance in today's world. Fr. Roy made the point that a positive research outcome is possible only with the overlapping of various disciplines.

### **Technical session – I**

The inaugural session was followed by technical session I chaired by Dr B Chandrasekhar, Assistant professor, Department of Mathematics, Sacred Heart College, Bangalore. In the technical session 1 there were 4 presentations focusing on the sub theme "Mathematics in Pollution Research ". There were four presentations under this subtheme. At the end of the session, Dr.Chandrasekhar appreciated the efforts of students and told it is highly commendable that students take up research seriously. Prof. Senthil Kumar felicitated Dr. Chandrasekhar at the end of the session.

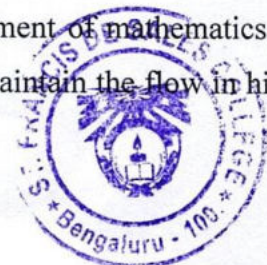
### **Technical session – II**

The second session was focused on "Mathematics in natural environment" . Dr Jeniffer, Oxford College of Science delivered a lecture on role of statistical tools in research. A keen learner and researcher with publications in leading journal, Dr. Jeniffer clearly conveyed the importance of mathematics in data management and interpretation. Dr. Jeniffer continued on the chair. In this session there were 5 presentations on various applications of mathematics in research and development. The session proved to be an eye opener towards the realization of the importance of mathematics in every minute details of life. Dr. Nebula Murukesh felicitated Dr. Jeniffer at the end of the session.

### **Day 2: 20 September 2019**

### **Technical session – III**

The second day sessions were focused on the main theme, "Modern research approaches in Science". Mr. Meganathan was given a floral welcome by Prof. Smrutee Markhedkar, Head, Department of Science in the beginning of the session This Session started with a talk on "Transforms" by Mr. Meganathan. He detailed on the applications of transforms using difference operator. The session was interesting with stories related to development of mathematics from natural numbers to the concept of operator. Mr. Meganadhan could maintain the flow in his talk





with his knowledge in the subject substantiated by a number of publications in referred journals. The session continued with paper presentations and Mr. Meganadhan chaired the session.

#### **Technical session – IV**

Mr. Meganathan continued on Chair. The student participants presented their papers. The session was highly interactive as the audience was highly enthusiastic on the topics delivered. The chair acted in a very responsible way to keep the session within the time frame.

After the session, Prof. Senthil Kumar, Asst. Professor, Department of Science thanked Mr. Meganathan for sparing his valuable and time to support mathematics.

#### **Valedictory Session**

The valedictory session followed the lunch break. Among the 20 presentations, three presentations were selected for the prizes. The prizes were announced and distributed in the valedictory session.

The details of the winners of each session are as follows:

<b>Prizes</b>	<b>Name</b>	<b>College</b>
<b>I</b>	Sharon Stanley, Anitha Chacko, John Jino Jose	CAIAS, Bangalore
<b>II</b>	Anna Elizabeth Sebastian, Divya Anne Chacko and Kessia Binoy	CAIAS, Bangalore
<b>III</b>	Rubyka B.K. and Jyothismitha	St. Francis de Sales College

Later on the dignitaries were felicitated with shawl and memento. Vote of thanks was proposed by Dr. Nebula Muurkesh, Coordinator, Dept. of Science. The session was followed by certificate distribution to the delegates.

The department acknowledged with gratitude, the support and inspiration of the Principal, Vice Principal and also the management of SFS College, Hebbagodi for sponsoring the seminar.

Co-ordinator  
Internal Quality Assessment Cell  
St Francis de Sales College  
Electronics City Post, Bangalore - 560 100.

**PRINCIPAL**  
St. Francis de Sales College  
Electronics City Post, Bangalore - 560 100.





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## ATTENDANCE LIST

DATE : 19 - 20 SEPTEMBER 2019

EVENT : SEMINAR ON ROLE OF MATHEMATICS IN SCIENCE AND ENVIRONMENT RESEARCH

SL.NO	NAME	ROLL NO	Signature
1	KISHORE Y J	19NCSMT001	Kishore Y
2	P C SUKANYA	19NCSMT002	Sukanya
3	RAKSHITHA S	19NCSMT003	Rakshitha.S.
4	RANI PRACHANDI	19NCSMT004	Rani
5	SUSHMA R	19NCSMT005	Sushma
6	AKKAMAHADEVI	19NCCOM001	Akkamahadevi
7	ANIL KUMAR S R	19NCCOM002	Anil
8	ANJITHA SANTHOSH	19NCCOM003	Anjitha.
9	ARCHITHA N	19NCCOM004	Architha.
10	ASHWINI N	19NCCOM005	Ashwini
11	ASIF PATEL P	19NCCOM006	Patel
12	BHAVANI L	19NCCOM007	bhavani
13	CHAITHRA B R	19NCCOM008	Chaithra.
14	CHAITHRA K R	19NCCOM009	chaithra
15	CHARLESON BRICE	19NCCOM010	Charleston
16	DHANANJAY R	19NCCOM011	Dhananjay R
17	DHANESHWARI	19NCCOM012	dhaneshwari
18	GOWTHAMI S	19NCCOM013	gowthami
19	JANAKIRAM R	19NCCOM014	Janakiram
20	JYOTHI S	19NCCOM015	Jyothi
21	KAVYANJALI R	19NCCOM016	Kavyanjali R
22	MADHUSHREE M	19NCCOM017	Madhushree M
23	MAHUA BANERJEE	19NCCOM018	Mahua
24	MANOJKUMAR HR	19NCCOM019	Manoj
25	MARY JENITHA P	19NCCOM020	Jenitha
26	NANDINI T	19NCCOM021	Nandini
27	NARENDRKUMAR L	19NCCOM022	Naren
28	NAVEEN KUMAR M	19NCCOM023	Naveen
29	NAVYA M	19NCCOM024	Navya
30	NITHYA K	19NCCOM025	Nithya K





31	PAVAN KUMAR S	19NCCOM026	Pavan Kumar.
32	POOJA H	19NCCOM027	Pooja.
33	PRASANNA M	19NCCOM028	Prasanna.
34	PRATHIBHA M	19NCCOM029	Prathibha
35	PRERANA R	19NCCOM030	Prerana.
36	PRINCY T	19NCCOM031	Princy
37	PUSHPA H	19NCCOM032	Pushpa.
38	RAGHAVENDRA S	19NCCOM033	Ragavendra
39	RAMYA M	19NCCOM034	Ranya
40	SAVITHA V	19NCCOM035	Savitha
41	SHIVA M R	19NCCOM036	Shiva. M.
42	SREENATH M	19NCCOM037	M. Sreenath
43	SUMA D	19NCCOM038	Suma
44	TEJASWINI G P	19NCCOM039	Tejaswini
45	VINOD KUMAR S	19NCCOM040	Vinod
46	YASHAVANTHACHAR I H	19NCCOM041	Yashwanth
47	MADAN Y	19NCCFC001	Madan Y
48	MADHU K	19NCCFC002	Madhu
49	MOHAMMED	19NCCFC003	MOHAMMED
50	PRUTHVI RAJ S	19NCCFC004	Pruthvi
51	RASHMITHA R	19NCCFC005	Rashmitha
52	RENUSHREE S	19NCCFC006	Renushree
53	SANDEEP R	19NCCFC007	Sandeep
54	ANSA SARAH SUNNY	19NCSM8001	Sunny
55	CHITHRA M	19NCSM8002	Chitra. M
56	HARSHITHA R	19NCSM8003	Harshitha
57	JITHIN ABRAHAM	19NCSM8004	Jithin.
58	JOSHITHA BABU	19NCSM8005	Babu
59	MERIL K P	19NCSM8006	M
60	PRASHANTHI K C	19NCSM8007	Prashanthi
61	PRAVALLIKA S G	19NCSM8008	Pravallika
62	SUDHANGSU THAPA	19NCSM8009	TS
63	TERESSA SONIA	19NCSM8010	Teressa.
64	TREESA MARY	19NCSM8011	Treesa
65	ABIJITH SAJI	18NCCOM001	Abijith
66	ABY MATHEW	18NCCOM002	Aby matheew.
67	AKHIL THOMAS	18NCCOM003	Akhil
68	AKHILESHA C	18NCCOM004	A
69	CHAITHRA M	18NCCOM005	Chaitra
70	CHAITHRA P	18NCCOM006	Chaitra
71	CHANDINI .K	18NCCOM007	Chandini
72	GOKUL R	18NCCOM008	Gokul





73	GURUPRASAD A	18NCCOM009	Guruprasad.
74	JANITHA C N	18NCCOM010	Janitha
75	JERSLIN J	18NCCOM011	Jerslin J
76	MANASA S	18NCCOM012	Manasa
77	MANJUNATHA M	18NCCOM013	Manjunatha.
78	NIKHIL KUMAR R	18NCCOM014	Nikhil Kumar
79	PALLAVI N M	18NCCOM015	Pallavi
80	POOJA LOHAN	18NCCOM016	Pooja.
81	PRANESH YADAV B P	18NCCOM017	Pooja Lohan
82	PREMA C	18NCCOM018	Prema
83	PRINCY F	18NCCOM019	Princy
84	PRIYANKA B M	18NCCOM020	Priyanka.
85	PUNYA SHREE A V	18NCCOM021	P
86	R ASHWINI	18NCCOM022	Ashwini
87	RAVIKUMAR C	18NCCOM023	Ashwini
88	REEMA DEBNATH	18NCCOM024	Reema.
89	SANGEETHA B	18NCCOM025	Sangeetha
90	SANJAY E S	18NCCOM026	Sanjay
91	SHALINI J	18NCCOM027	Shalini
92	SHEETHAL PRAKASH .H	18NCCOM028	Prakash
93	SOUNDRYA N M	18NCCOM029	Soundarya.
94	STANY ABHISHEK F	18NCCOM030	Shek

