



# **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 that 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.

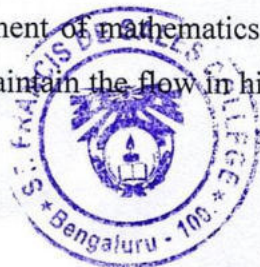
### **Technical session – II**

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 | Charlson     |
| 16    | DHANANJAY R      | 19NCCOM011 | Dhananjay    |
| 17    | DHANESHWARI      | 19NCCOM012 | Dhaneshwari  |
| 18    | GOWTHAMI S       | 19NCCOM013 | Gowthami     |
| 19    | JANAKIRAM R      | 19NCCOM014 | Janakiram    |
| 20    | JYOTHI S         | 19NCCOM015 | Jyothi       |
| 21    | KAVYANJALI R     | 19NCCOM016 | Kavyanjali   |
| 22    | MADHUSHREE M     | 19NCCOM017 | Madhushree   |
| 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       |





|    |                     |            |              |
|----|---------------------|------------|--------------|
| 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 | Ramya        |
| 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 | Meril        |
| 60 | PRASHANTHI K C      | 19NCSM8007 | Prashanthi   |
| 61 | PRAVALLIKA S G      | 19NCSM8008 | Pravallika   |
| 62 | SUDHANGSU THAPA     | 19NCSM8009 | Sudhansu     |
| 63 | TERESSA SONIA       | 19NCSM8010 | Teressa.     |
| 64 | TREESA MARY         | 19NCSM8011 | Treesa       |
| 65 | ABIJITH SAJI        | 18NCCOM001 | Abijith      |
| 66 | ABY MATHEW          | 18NCCOM002 | Abymathew.   |
| 67 | AKHIL THOMAS        | 18NCCOM003 | Akhil        |
| 68 | AKHILESHA C         | 18NCCOM004 | Akhilesha    |
| 69 | CHAITHRA M          | 18NCCOM005 | Chaithra     |
| 70 | CHAITHRA P          | 18NCCOM006 | Chaithra     |
| 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         |

