

# DEPARTMENT OF MATHEMATICS

## DEPARTMENT ACTIVITIES

2019 - 2020

### 1. Guest Lecture

Organized UGC funded Guest Lecture on 13.08.2019 with **Dr.S.Sivasankaran**, Associate Professor, Department of Mathematics, King Abdulaziz University, Saudi as the Resource Person and he spoke on “Convective Flow of Nanofluids in Enclosures. 57 UG students and faculty of the department benefited from this lecture.

### 2. Special meetings (Intercollegiate Meet – QUESTA 2K19)

*“There are no dreams too large, no innovation unimaginable and no frontiers beyond our reach”.*  
Organised an inter-collegiate meet QUESTA 2K19 on **06.09.2019**. This Meet is organized by our students for other college students. The Meet consisted of 10 different events namely paper presentation, Math Quiz, Math Genius, Math Rangoli, Math Sketching, Connexions, Face Painting, Math Modelling, Miming and Dance. The registrations ended with showing up a great result of 422 Mathematics pursuing participants from nearly 85 institutions. Registration was followed by inauguration ceremony. **Dr.K.Sumathi**, Associate Professor, Department of Mathematics, Krishnamaal College of Arts and Science for Women, Coimbatore graced the occasion as the chief guest. The ceremony was enthusiastically mastered by L.NagaRenuga from III B.Sc., Mathematics (Aided) and it begun gloriously with praying the almighty and lighting the lamp. The Chief guest, faculty members and the huge innovative crowd of participants was welcomed through the welcome speech by M. Dheva Dharshni, *Mathmagic* Association Secretary, Department of Mathematics. The presidential address was delivered by Dr.N.Maragatham, the Principal, Vellalar College for Women. This was followed by another motivational speech delivered by the Chief Guest. The inauguration ceremony was followed by the competitions held at various venues within the college premises. A milestone to achieve in an intercollegiate meet is the

OVERALL CHAMPIONSHIP. With the curiosity in mind and anxiety in everyone's heart, after a countdown from 10 to 1, the Overall Championship was announced to be won by Kongu Arts and Science College, Erode. As the event winded up, P.N.Maturitha from III B.Sc.,Mathematics proposed the vote of thanks. Finally the meet ended up successfully with National Anthem.

*“Success is never achieved by the size of our brain , but it is always achieved by the size of our thoughts.”*

### 3. Association Competitions

Department of Mathematics of Vellalar College for Women organised the **Math Magic Association Competitions** to the students of Department of Mathematics on 06.12.2019.

The list of Prize Winners of the Competitions are given below:

| S. No. | Name of the Competition                         | Class                  | Name of students                | Prize |
|--------|---|------------------------|---------------------------------|-------|
| 1      | Math Quiz                                       | III B.Sc., Mathematics | K.Keerthirekha<br>P.N.Maturitha | I     |
|        |   |                        | R.S.Sandya Devi<br>S.Madhumitha | II    |
| 2      | Paper Presentation<br>(Topic: Fibonacci Series) | II B.Sc., Mathematics  | R.Koushika                      | I     |
|        |   |                        | S.J.Manisha                     | II    |
| 3      | Math Modelling                                  | I B.Sc., Mathematics   | G.SreeVarshini                  | I     |
|        |   |                        | S.Tamilselvi                    | II    |

The list of books sponsored by **NBHM** in the year 2019 -2020

| Name of the Book  | Author  | Year & Edition                           |
|---|---|--|
| Basic Abstract Algebra                                      | P.B.Bhattacharya,<br>S.K.Jain, S.R.Nagpaul        | 1995, 2 <sup>nd</sup> Edition            |
| Coding Theory   | San Ling and Chaoping Xing                        | 2019, 1 <sup>st</sup> South Asia Edition |
| Ordinary Differential Equations Principles and Applications | A.K.Nandakumaran,<br>P.S.Datti,<br>Raju K.Georgre | Reprint 2019                             |
| The Mathematics Consortium Bulletin                         | Ravindra S. Kulkarni, Vijay D. Pathak             | July 2019, 1(1)                          |
|   |   | October 2019, 1(2)                       |

#### **4. Industrial Visit**

Department of Mathematics (Aided) of Vellalar College for Women went for a three days Industrial Visit to Trivandrum and Kanyakumari from 18.12.2019 to 20.12.2019. The team was led to visit **Vikram Sarabhai Space Centre** where the space museum gave the students an excellent exposure on space shuttles, their parts, astronauts and a wide knowledge on the evolution of revolution in space. The crew members of ISRO showed the models of space satellites, rockets and explained their working procedure at each stage. They also explained about the propellants used for the launch. Doubts raised by our students were gladly cleared by them. Finally VSSC visit ended with a short space film on the astronauts role in space.

The production unit of **ISRO at Kanyakumari** was visited. The functioning of space shuttles, the beginning of that era at space, Development at each stages, Changes that happen during each launch was clearly explained through digital assistance. The most interesting that happened there was every person was allowed to get on the weighing machine and result of their weights at each planets was displayed on a massive screen. Viewing the models designed made everyone curious.

#### **5. Extension Activity**

Department of Mathematics had organized an Extension Activity on “**Hands-on Training on Mathematical Models**” for the benefit of class I to class V students of Panchayat Union Primary School, Karapparai on 13.02.2020. The students of Department of Mathematics prepared Mathematical models on various topics such as multiplication tables, prime numbers and composite numbers, types of angles, unit conversions, etc., School students were very keen to observe and they enjoyed solving puzzles. The models prepared by II year and III year B.Sc.,(Maths) students were donated to the school.

#### **6. Retraining of Teachers**

Department of Mathematics had organized Retraining of Teachers under UGC Autonomous Grant on 24.02.2020. **Dr.V.Srinivasan**, Assistant Professor – II, Department of Mathematics, Srinivasa Ramanujan Centre, SASTRA Deemed to be University, Kumbakonam acted as Resource Person and delivered a talk on Applications of Differential Equations. He explained the Predator –Prey model in Mudhumalai forest using Differential Equations and LCR Circuit.

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