

WEBINAR ON MATHEMATICS AND ITS APPLICATIONS USING ICT

The two day lecture series on “Mathematics and its Applications using ICT” was organised by the department of Mathematics, Stella Maris College on 18 and 19 May 2020 from 3.00 pm to 5.00 pm. Dr.V. Jude Annie Cynthia, Head, Department of Mathematics convened the programme and organised along with Ms. Sindhiya Therese, Asst. Professor, Department of Mathematics, the webinar using the online platform Google Meet.

The Online National Workshop on the Basics of Documentation using LaTeX kick-started with a prayer by Dr. Felbin C Kennedy, Vice-Principal, Stella Maris College & Associate Professor of the Department, followed by Dr. V. Jude Annie Cynthia welcoming the participants.

The two day interactive sessions was a boon to all the participants who attended the seminar. The participants were basically students from suburban areas and remote places of India.

The two day lecture series was broken into four sessions covering the concepts such as “Celestial Wonders”, “Amazing Celestial Events of April and May 2020” and “A Visual Treat of Complex Functions and its Applications” delivered by the resource persons from the department of Mathematics, Stella Maris College specifically Dr. Teresa Arockiamary S, Ms. A Dhanalakshmi, Dr. Chinthamani S and Ms. Fancy V F.

The first session on Day 1 was delivered by Dr. Teresa Arockiamary S on the Celestial Wonders. She briefly covered on how the people on the earth view the celestial objects with respect to celestial sphere and the great circles such as Meridian, Equator, Horizon and the sun’s path, the ecliptic. She also threw light on the various terms used in Astronomy such as declination circles, verticals, the prime vertical, first point of Aries, first point of Libra, parallactic angle, circumpolar stars, cardinal points and many more concepts that arouse the interest of the participants.

The second session on day 1 was delivered by Ms. Dhanalalshmi A who typically explained about the fascinating recent events that happened in the sky during the month of April and May 2020. She pictorially depicted the formation of Ursa major and Ursa minor and the Orion belt that can be viewed in the night sky with our naked eye. She also spoke about the pink moon and the rare occurrence of Mars, Moon, Saturn and Jupiter in a line in the night sky.

The first session on day 2 was delivered by Dr. Chinthamnai S, who basically began with the concept of complex numbers, the need of a complex number and the various operations performed with complex numbers. She then highlighted the applications of complex numbers in day today life and the various online tools and apps that can be downloaded from the web to perform the various operations in complex numbers.

The final session was handled by Ms. Fancy V F who made the session more interactive by using the chat box and intuiting the students to answer her question as frequent as possible. This created a good rapport with the participants as they were attentive and posted a lot of queries to be answered. Ms. Fancy gave a good insight on the different kinds of transformations and how it affects the shape of the body to be transformed under the various transformations.

On both the days of lecture, a google form on MCQ questions related to the session was posted to the participants which they filled eagerly and submitted their responses. Even though 235 participants belonging to 23 institutions across the country registered for the programme, due to the low connectivity, only 60 people joined the sessions.

Feedback forms were filled after the second day of the session and the response was extremely overwhelming, encouraging us to conduct many more webinars alike.