



VIDYAVARDHAKA COLLEGE OF ENGINEERING

(A unit of Vidyavardhaka Sangha[®], Mysuru)

Accredited by NBA and NAAC, with 'A' grade.

Gokulam III Stage, Mysuru – 570 002, Karnataka, INDIA.

Three-Day Faculty Development Programme on
"Applications of Mathematics in Engineering discipline"

The Department of Mathematics, Vidyavardhaka College of Engineering, Mysuru organized a Three-Day faculty development program on **"Applications of Mathematics in Engineering discipline"** on 2nd to 4th June 2020.

The inauguration function was held on 2nd June i.e. on the first day at 10AM. The inauguration function was graced by Hon. President Sri Gundappa Gowda, Hon. Secretary Er. Sri P Vishwanath, Respected Principal, Dr. B Sadashive Gowda, HOD of the Department, Dr. N. Bhaskar and the chief guests for the inaugural function were Dr. Girisha B J, Professor, Department of Mathematics, Kuvempu University and Dr. Ashok Rao, Former head, Network Project, CEDT, IISc Bengaluru.

The Professors and participants of various institutions were also present during the inauguration.

Day 01 Report:

The **first lecture** was delivered by Dr. Girisha B J. He spoke on the application of Differential equations in real world problems. He explained how to model differential equations in the dynamic systems such as Liquid flow in vessels and in Engines. He also covered contents on finned structures and explained how its length and material affects the heat transfer.

The **second and the third lectures** were delivered by Dr. Ashok Rao. He briefed about the static and the dynamic systems in engineering. He explained about the importance of the real domain in engineering application and presence of deeper mathematical concepts in the engineering domain.

The **last session** of day one was on Optimization taken by Dr. Sandesh. He explained the concepts by taking a practical example of an optimization problem which included inequalities and solving system of simultaneous linear equations.

Day 02 Report:

The **second day** started with the session by Dr. Pradeep S. He delivered lecture on 'Discrete Mathematics and its application'. First, he compared the continuous and discrete aspects in Mathematics and established a fantastic idea of how a continuous phenomenon can be expressed as a system of discrete phenomenon. He demonstrated the concepts of cryptography through games and made the session very joyful.

The **afternoon session** was taken by Dr. Harsha S. He dealt with the topic of 'Probability'. Rather than dealing with the dry theory part, he went into the applications of probability and statistics in

various fields ranging from politics, AI ML, Sports, Finance and many more. This session ended with discussion on various aspects of stats and probability.

Day 03 Report:

The Last day of the FDP started with an Open house discussion by Dr.Sachidananda. The second session was taken by Dr. Arulalan Rajan who discussed concepts from Probability and its applications.

The last session was again taken by Dr.Sandesh who continued his lecture on optimization and interacted with the audience by taking interesting minimization and maximization problems.

The FDP concluded with the Valedictory function.

Few Photos of the FDP



Inauguration of Three-Day FDP on “Applications of Mathematics in Engineering discipline”



Participants



Delivery of lectures by various Resouce persons and Feedback by the participants


