**Faculty Development Program Report**
**Queuing Theory and Stochastic Process for Advanced Systems**

Two weeks FDP on "Queuing Theory and Stochastic Process for Advanced Systems" was organized with an intent of active and Interactive learning for the research scholars with various research background. FDP was successfully conducted by the Department of Information Science & Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Industrial Engineering & Management and Computer Science & Engineering of BMS College of Engineering. The programme was conducted from 2$^{nd}$ July 2018 to 13$^{th}$ July 2018.

Queuing theory is an applied study of analysing the performance of different systems in the arena of engineering and technology. The queuing systems are successfully implemented for performance evaluation, quality, productivity of process and societal applications. The performance measures include utilization, waiting length, response time and throughput. For instance, monitoring and control of mobile service support system are collaborated with queues, caches and databases. Queuing Theory and Stochastic models also can be applied to various research domains like networking cloud computing.

The aim of this FDP is to provide achieve new insights into widely applicable queuing theory and Stochastic Models for Advanced systems across various domains of engineering applications of diverse problem statements. There was session topics ranged from the basics to advance levels by eminent speakers across the country from IISC and IIT. to FDP was most productive of interesting and stimulating discussions. Also, all the scholars from various departments had an opportunity to their share knowledge among fellow educators and co researchers. Take away from the FDP was every participant was able to apply Queuing Theory and Stochastic models for their research problems.