

IQAC LECTURE SERIES

**REPORT OF TALKS, LECTURES AND FDP
ORGANISED BY IQAC FOR ACADEMIC AND
ADMINISTRATIVE STAFF**

2020 - 21

**TOPIC: TECHNICAL SESSION: UGC'S QUALITY MANDATE
INITIATIVES**

Resource Person: **DR. A.S. SUMESH**

29th SEPTEMBER 2020

As the world is passing through an unprecedented time of social distancing and work from home situation, it is highly necessary that these should not impact our morale and productivity. Hence the IQAC arranged a session to motivate the teachers to maintain energy and quality in online classes. The resource person, Dr. A.S. Sumesh, Assistant Professor, MES College Nedumkandam, started his session by emphasizing the need to drive oneself and mould one's teaching practices to ensure quality at all levels. He addressed the major challenges faced by higher education system, need of enrichment and maintenance of quality teaching and the adoption of ICT teaching methods etc. He covered all the mandatory aspects of CAS and elaborated the points to be achieved at different stages of Academic Levels for promotion.

He reminded the teachers about the required number of days for refresher course, orientation programme, according to new norms. He urged all the faculty members to complete the mandatory courses on time. The teachers cleared all their doubts regarding this and the session was useful for teachers who are at different stages of promotion

TOPIC: TECHNICAL SESSION: LEARNING MANAGEMENT SYSTEM & E-TEACHING THROUGH MOODLE

Resource Person: DR. SAJISH. P. R

2nd NOVEMBER 2020

The class was conducted by Dr. Sajish P. R., Department of Botany, Baselius College, Kottayam. As Moodle is the world's most popular learning management system, IQAC of the college deemed it fit to organize a class so as to familiarize the teachers the basics of operating it. The class was organized online and Dr. Sajish elaborately explained the rudiments of this learning management system. The innovative solutions with MOODLE LMS so as to improve efficiencies and student outcomes in higher education was explained.

He covered all the relevant areas and gave us an additional video for practicing. The faculty members cleared their doubts and the session was useful for teachers. He also taught us how to conduct exams using this and at the end of the session listeners were familiarized with the new cloud system and was ready to become the part of it.

**TOPIC: FACULTY ENRICHMENT PROGRAMME ON
COMPUTATIONAL CHEMISTRY**

Resource Person: DR. P. BALANARAYAN

(Assistant Professor, IISER Mohali)

16th DECEMBER 2020-21st DECEMBER 2020

A faculty enrichment programme was organized by Postgraduate department of Chemistry and Centre of Research of Baselius College in association with CRSI, Trivandrum chapter. The resource person was a very eminent personality Dr. P. Balanarayan from IISER Mohali. The faculties from different parts participated in this session.

Computational chemistry is a branch of chemistry that uses computer simulation to assist in solving chemical problems. It uses methods of theoretical chemistry incorporated into computer programs, to calculate the structures and properties of molecules, groups of molecules, and solid. The programs used in computational chemistry are based on many different quantum-chemical methods that solve the molecular Schrodinger equation associated with the molecular Hamiltonian. The simplest type of *ab initio* electronic structure calculation is the Hartree–Fock method (HF), an extension of molecular orbital theory, in which the correlated electron-electron repulsion is not specifically taken into account; only its average effect is included in the calculation

He simply started with *ab initio* methods which do not include any empirical or semi-empirical parameters in their equations – being derived directly from theoretical principles, with no inclusion of experimental data. Then he moved his steps to Density Functional methods and later how to interpret molecular wave functions. The flow of the class was really appreciated by the participants and the classes were extended to one more day as per the request of the participants.

TOPIC: QUALITY INITIATIVES AND NAAC ACCREDITATION

Resource Person: DR. SUNIL C. MATHEW

19th FEBRUARY 2021

IQAC has arranged a beautiful session regarding the quality initiatives and NAAC accreditation. The classes were handled by Dr. Sunil C Mathew, IQAC coordinator, St. Thomas College, Pala. Quality is the defining element of higher education in India and through a combination of self and external quality evaluation, promotion and sustenance initiatives the colleges constantly strive to achieve it. He explained that assessment and accreditation are part of it and IQAC of each college play an important role in attaining the goal of quality enhancement. He explained the points that should be emphasized by the members of each criterion.

The session was very useful and the members of different criterions benefitted from the same as they got an opportunity to clear all the doubts from participants.