

## **QEEE Programme at MCKVIE**

Quality Enhancement in Engineering Education (QEEE) is an initiative of MHRD, Govt. of India to enhance quality of engineering education and bridge the industry - institute gap. Direct to student program initiated by IIT Madras is conducting the program under able leadership of Prof. Ashok Jhunjhunwala. Initially, 100 colleges were selected for pilot program of QEEE and MCKV Institute of Engineering was one of them.

QEEE program consisted of four subsections, such as Live classes, Live labs, Tutorials, Massive open online courses and Bridge courses.

During live classes a number of course packs on selected courses from B.Tech curriculum are delivered by faculty members of IITs. Each course pack comprises three lectures of two hours duration each, on specific topics taken from the selected subjects. Classes are projected in remote classrooms through a) synchronisation of a cloud server setup in IITM with local servers of the institute and b) receiving live feed by means of set top box transmitted by NKN to IGNOU and uplinked to BISAGI and BISAG II channel. A Local teacher is present in the class to monitor the session and there are two way interactions. Completion of each course pack is followed by online quizzes, tutorials and feedback session. The QEEE online lecture sessions are conducted through software named A-VIEW developed by Amrita University.

Students attend the lecture sessions as per schedule in presence of course coordinator, system administrator and QEEE coordinator. Completion of each course pack is followed by a feedback session.

In live labs, students conduct experiments based on a set of prior instructions and loaded theory content. A remote tutor assists in labs along with the local teacher. An external tutor (senior student/ recently graduated person from industry) is provided remote tutorials to a small group of about 30 students.

MOOCs are made available to learn via web and to be supplemented by online quizzes for students to master concepts.

Bridge courses are off curriculum courses aimed at providing additional skills to make students industry ready and improve employability.