

## **Innovative processes in Teaching and Learning**

IQAC motivates the faculty to adopt Innovative processes in Teaching and Learning process. These Innovative teaching approaches which are a combination of the traditional lecture method along with other methods helps the young minds to increase their learning capacity.

- Usage of E-learning – resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT) in preparing lectures.
- Visits to the library and access of internet helps to know about the latest trends in technology and many novel applications. Blending these novel applications with the theoretical concept always helps to bring students close to the concept. The Institution library is well stocked with books, journals, and back volumes, projects including e-books and e-journals, text books, reference books.
- Usage of OHP , Power Point presentations, Models/charts , smart class-rooms
- Usage of ICT infrastructure to prepare computer aided teaching and learning material.
- Conduct of Student Seminars.
- Conduct of Assignments, tutorials, Class room tests and Group discussions on Case studies.
- Conduct of Carrier Guidance and counselling activities as a part of regular timetable which help students to acquire potentials to mould them according to their future goals and ambitions.
- Conduct of Sports and games to students to make them strong physically and mentally which indirectly helps to improve the learning skills.
- Conduct of add on courses like C Programming , SoftComputing , Spoken English to acquire additional knowledge
- Establishing MOUS with industry and academia so as to conduct certification programmes like CCNA , Oracle , Cisco etc which helps the students to bridge the gap between the industry requirements and the concepts they obtained as a part of the core curriculum.
- To impart social responsibility in students NCC /NSS activities are conducted regularly.
- Quick access to the learning material like hosting of the PPTs and course material on website and MOODLE -a course management system (CMS) -a software package designed to help educators easily create quality online courses helps students to learn the concepts at their convenient time. Using Moodle we can maintain and sharing all the course files, video lessons, gate questions, text books and reference books online for all subjects of the semester. At the same time the student's performance can be evaluated in laboratory subjects using Moodle.

- The project development skills in students can be improved by preparing proper screening schedules by the PRC for reviews, submission of the weekly / monthly /semester end reports. After each review necessary guidelines can be provided to the students.
- Through Organizing Industrial/Educational tours and visits to various companies, industries help students to gain real experience about the outside world.
- Conduct of Co curricular activities like Science Exhibitions , conduct competitions in Quiz , Poster presentations , project exempos , short films etc to build competitive and organizational skills in the students.,
- Conduct of Gate coaching classes as a part of the timetable helps the students to improve skills to face competitive examinations.
- Conduct of remedial /backlog classes and special classes for slow learners so as to improve the learning skills of the student
- Deputation of students to conferences, seminars and workshops which inturn helps the students to acquire paper presentation /preparation, communication and event participation skills.
- Conduct of Screened animations to illustrate important concepts
- Conduct of mini projects in the concerned subjects
- Conduct of Training programs to students LIKE in Open Source Computing Technology, MATLAB, Labview, PCB Design, VHDL to acquire hands on experience in various applications.
- To teach content beyond the syllabus.
- Usage of Glob arena for preparing the lecture notes and other training e-learning material.
- Lifelong learning skills and interest in research activities can be developed in students through Eminent Scientists and experts lectures.
- To encourage Peer teaching to enable students to attain self learning skills
- Realtime projects can be assigned to the advance learners.