

### **2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words**

Aditya College of engineering (ACOE) put all the efforts for the overall and holistic development along with the employability of all the aspirants as a part of its vision and mission. The facilities related to infrastructure is being upgraded from time to time. Faculty members are at liberty to use any one of the facility or he/she can use combination of tools wherever necessary. Teachers use chalk and talk method, power point presentations, animations and video lectures to visualize the concepts and principles and also use NPTEL video lectures and other E-learning resources such as Udemy, Coursera etc. Teachers demonstrate the experiments during laboratory sessions to enhance the practical knowledge of learners. Teachers also conduct various tests, assessment tests and training tests online.

All the class rooms and seminar halls are equipped with LCD projectors with systems, Wi-Fi facility. All the departments are provided with internet facility through local area network. College has the smart classroom with smart board, lighting control, surround sound system, video conferencing and recording facilities. Class room lectures/online lectures can be captured, edited and placed online to enable the students to access anytime. College has a Learning Management System i.e. MOODLE which is an open source platform which enables teacher to create, share and upload the content. LMS consist the features such as student forums, assessment, collaborative learning. Student can access the LMS 24 x 7 from anywhere.

College created SWAYAM-NPTEL Local Chapter on 2<sup>nd</sup> February 2016 and students are encouraged to enroll for NPTEL online courses which would significantly widen their knowledge base and improve their employability with the certifications. Teachers use these NPTEL materials to supplement their classroom teaching. Apart from NPTEL online certifications, students and faculty members are encouraged to take up online certificate courses and obtain certifications from reputed global institutes through Coursera, Udemy etc.

Moreover, college is maintaining well-equipped library. A variety of E-books and E-journals are subscribed to support all the activities related to academics. College is a member of the DELNET/INFLIBNET. College maintains its own management information system to maintain the attendance of students and staff members, marks awarded and other activities and is open to all its stakeholders.

Teachers were trained to use Microsoft Teams online platform to conduct the online classes for students during pandemic situation and online classes were conducted successfully.

The following tools are used by the Institute-

1. Projectors- Projectors are available in different classrooms/labs
2. Desktop and Laptops- Arranged at Computer Lab and Faculty cabins all over the campus.
3. Auditorium- It is digitally equipped with a mike, projector, cameras and computer system.
4. Seminar Rooms- Three seminar halls are equipped with all digital facilities.
5. Printers- They are installed at Labs, HOD Cabins and all prominent places.
6. Photocopier machines & Scanners – Multifunction printers are available at all prominent places in the institute.
7. Online Classes through Microsoft Teams, Google Classroom.
8. MOOCs Platform (Iem-Learning, NPTEL, Coursera, SAP, Udemy, Edx and many more)
9. Digital Library resources are also available.
10. Video Conferencing- Students are counseled with the help of Zoom/ Google meet applications.
11. Online quiz- Faculties prepare online quiz for students after the completion of each unit with the help of Google Forms.