2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Aditya College of Engineering (ACOE) strongly believes that a strong and well established system of teaching-learning process and focus on students and motivates them to be the center of any activity that takes place in the campus. Teaching-Learning process not only happens within the four walls of the classroom but also takes place through various activities such as Clubs, Cells, individual as well as group activities/tasks, technical symposiums, youth festivals, seminars/presentations inside and outside the college, project exhibitions, internships/industrial visits. All these methodologies are adopted to provide better learning experience to the student. Teachers use ICT and other tools and promote self-learning among students and along with interactive sessions in class rooms, Q & A sessions and seminars on course topics/projects.

Experiential learning

- Learners experience and learn the concepts and their significance through laboratory sessions by performing practical, observation and calculate the output.
- College organizes workshops on various topics and provides hands-on experience to learn emerging technologies such as Android applications, IoT, PLC/SCADA, Robotics, 3D printing etc.
- Students are encouraged to visit industries to observe real time processes and to take training during semester gaps and summer.
- Educational tours and surveys are organized by the departments.
- It is expected that learners engage physically, mentally, emotionally through various activities and to initiate and take up projects/start-ups and explore all the possible opportunities.
- Seminars and presentations by the learners are encouraged in emerging areas.
- Individual projects are encouraged.
- Encourage students to organize various events on their own to inculcate leadership quality and to improve other skills.
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Participative learning

Learner centric methods such as group work, role play, industrial visits, case studies, seminars and presentations will be deployed depending on the study of course.

- Encourage the learners to participate in various competitions at Regional/National/International levels to improve their skill-set further.
- Motivate the learners to initiate DIY project models by forming small teams to enhance peer learning.
- College organizes technical symposium every year and encourages all the students to participate in different activities such as paper presentations, poster presentations, Quizzes, project exhibitions on latest trends from all the departments. Students will be directed by the faculty in all the activities for better organization of the events.

Problem solving methodologies:

- Learner should be able to provide a solution or solve any kind of general/engineering problem individually in the real life with their general and technical engineering skills.
- Learners are made to write notes, solve problems individually during class room and laboratory sessions.
- Slip tests, unit tests, Q & A sessions and assignments will be given to learners to assess them and for the learner's individual improvement.
- Students are motivated to participate in competitions at Department/College/University/State/National/International levels to enhance their problem solving skills.