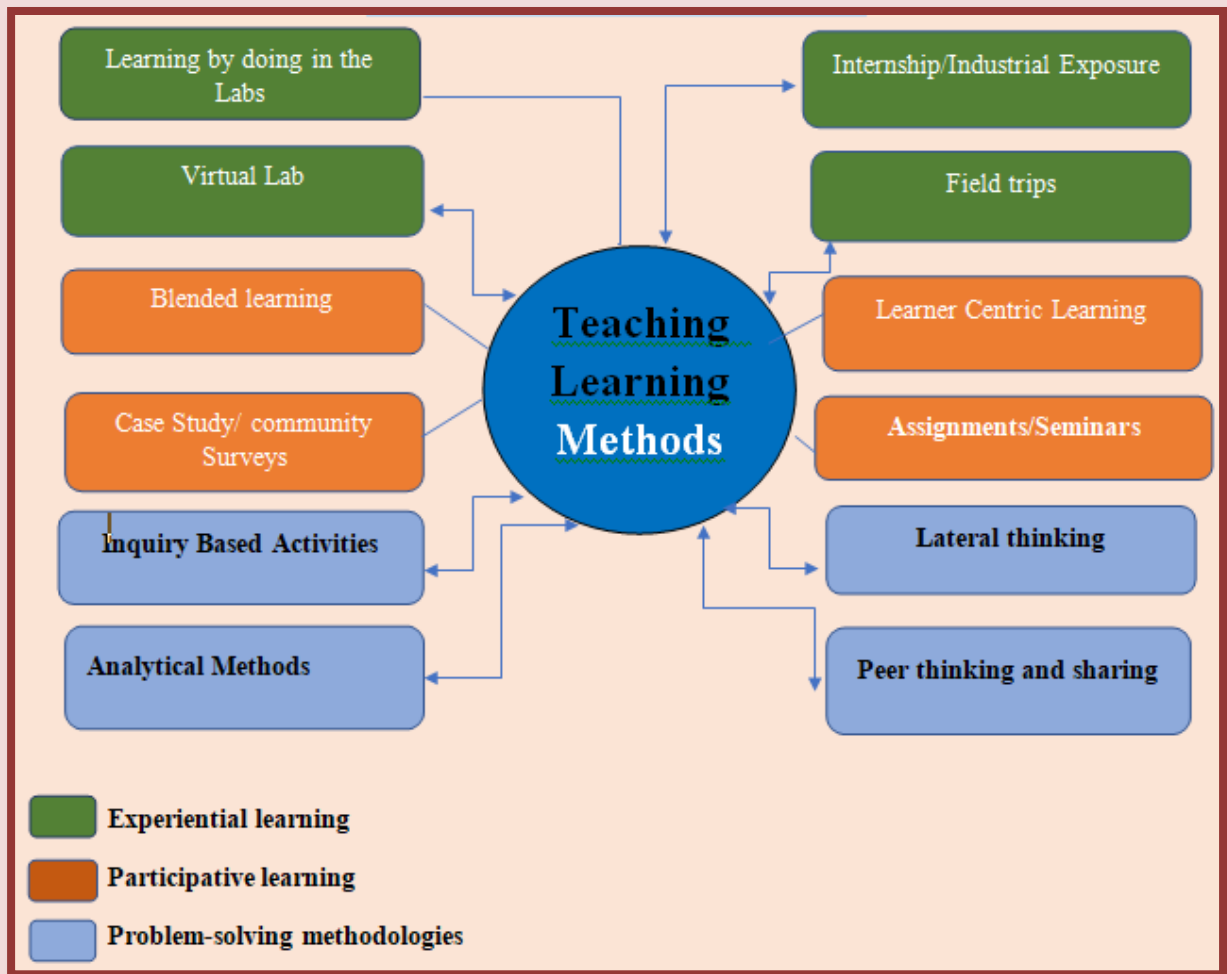


**2.3.1. Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences**

**TEACHING LEARNING PROCESS**



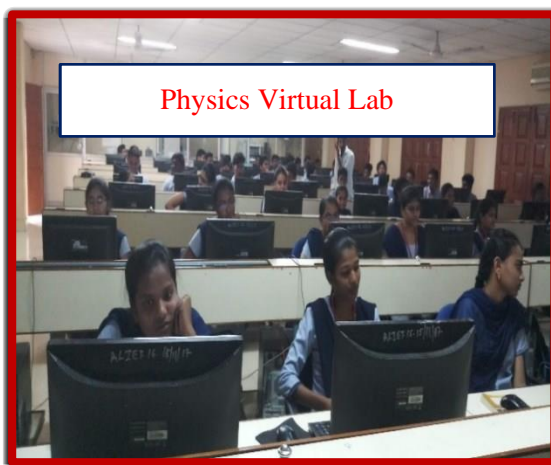
2.3.1. Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

## Experiential Learning

**Experiential learning** is accomplished by carrying out **experiments in laboratories** that enhances the understanding of theoretical concepts. **Virtual laboratories** are software programs that provide real time learning experience.

## Virtual Labs

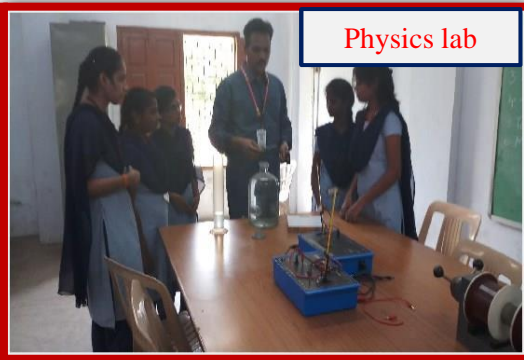
The Virtual Laboratories at ALIET create an interactive environment for learners to carry out their experiments in various disciplines like physical science, chemical science, and above all, in various branches of engineering like mechanical engineering, electrical engineering, computer science etc. These labs intend to develop a complete learning management system wherein students are provided access to various tools including **web sources**. Thus, experiential learning is acquired through the process of learning by doing experiments.





### Learning by doing in the Labs

**Learning by doing in the labs** aims to embed in students a quest for learning through technology which helps them to transfer their theoretical knowledge to practical endeavours. We have several labs at ALIET. The Siemens laboratories provide suitable ambience for training students. The laboratories serve as a powerhouse for generating innovative ideas which enhances their notions in an effective manner. As per a tie-up with the Andhra Pradesh State Skill Development Corporation, these laboratories were established.



Physics lab



Mechanical Lab



Training at Siemens Lab



Training on Manufacturing Welding



Training on Electronic Office Appliances



Training on Home Appliances



Training on Appliance



Second level training for Home appliances



## Internship/Industrial Exposure Field

Experiential learning is also gained through **Internship/ industrial exposure and field trips**. Students are provided with a number of opportunities to share industry experiences in order to encounter and explore novel things in an authentic situation. The exposure programmes have enabled the learners to broaden their understanding and have provided them with knowledge about practical working environment.



Internship



Industrial exposure

## Participative Learning

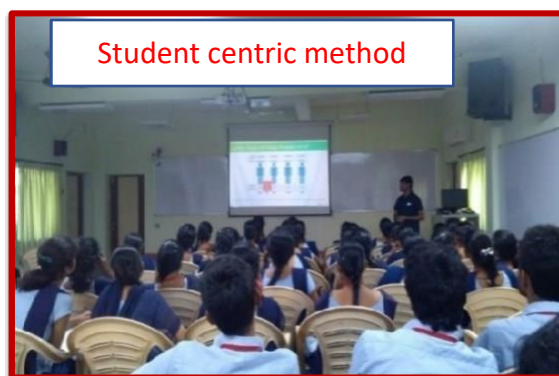
### Blended Learning

A combination of e-learning with traditional classroom learning to create an integrative learning approach in the classroom is what is meant by **Blended Learning**. Learners at ALIET are encouraged to shift their focus from the delivery of knowledge to its application through e-learning.



### Learner Centric Learning

Learner centric learning encompasses methods of teaching that shifts the focus of traditional classroom instruction to student centred learning. This method puts the students' interest first as central to learning experience. Thus, participating in the class activities, students gain freedom to voice out their feeling and carry out group activities and project works. Students choose different project works based on their interests.



## Case Study /Community Survey

This process involves the identification of the problem, based on references, collection of raw materials and relevant data, and design and develop a methodology for its implementation to find the solution. Students gain learning experience through extension programmes and community survey.



Case study



Gaining learning experience



Community survey



Consoling the sick people



Village Exposure



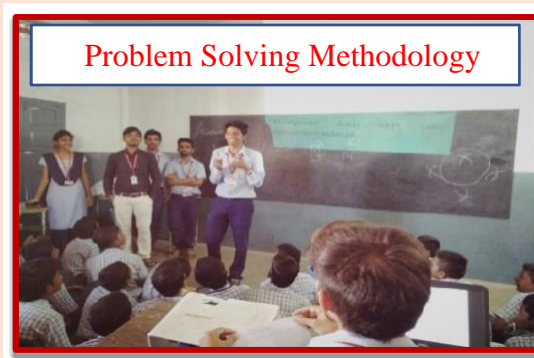
Visit to Old Age Home



## Problem-solving Methodologies

### Inquiry Based Activities

**Problem-solving methodology** is another student centric method that assesses the grasping abilities of students. An unstructured problem is given as an assignment, thereby students are given a chance of exploring the different ways of solving the problem, and finally the best way of solving the problem is identified. This method is also called the Inquiry Based Activities.



### Lateral thinking Analytical Method

**Problem-solving methodology** is used to encourage students to use their creative and analytical skills for making presentations, group activities and dialogues. The learners are encouraged to come up with creative and innovative insights.







Group activity



Lateral Thinking

### Peer thinking and sharing

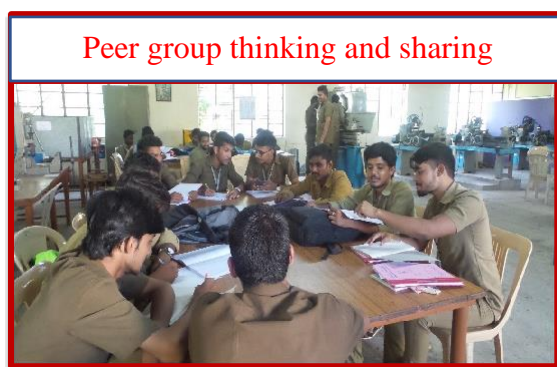
**Co-operative & Collaborative Learning** is an attractive student centric method. Students get into small groups, gather information and solve problems/ present technical papers at seminars that are arranged at various colleges. This is a true exercise for promoting team spirit and peer group thinking and sharing.



Group work



Solving problem in a group



Peer group thinking and sharing



Promoting team spirit