



SETHU INSTITUTE OF TECHNOLOGY
(An Autonomous Institution| Accredited with 'A' Grade by NAAC)
PULLOOR, KARIAPATTI – 626 115.



DEPARTMENT OF PHYSICS

Activity Supports Employability/Skill Development

Subject Code: **15UPH103, 15UPH203, 15UPH204, 15UPH205, 15UPH206, 15UPH207, 15UGS112 & 15UGS210**

Subject Name: **Engineering Physics, Materials science, Solid state Physics, Semiconductor Physics and Optoelectronics, Building Physics, Physics for Agricultural Engineering, Basic Sciences Laboratory – I and Basic Sciences Laboratory – II**

The following activities were conducted in the course for the students to support Employability / Skill Development.

- **Mind map activity** helps student to note down only the most important information using keywords and then make connections between facts and ideas visually. It also helps the students to share their creative ideas on problem solving.
- **Think – Pair – Share** activity provides an opportunity to give voice to quieter students who might have difficulty sharing in a larger group, quick feedback for the instructor, encouragement and support for higher levels of thinking of the students.
- **Case study and Problem based learning activities** help the students in problem solving and decision making skills, develop student's critical thinking skills, encouraging critical reflection and enabling the appreciation of ambiguity in situations.
- **Interactive demonstration** include novel visualizations of the material and allowing students to probe their own understanding by asking if they can predict the outcome of the demo. They are also a venue for providing applications of ideas and concepts.
- **Practical demonstration-** Physics lab experiences include enhancing mastery of engineering subject matter, developing scientific reasoning abilities, increasing understanding of the complexity and ambiguity of empirical work, developing practical skills, increasing understanding of the nature of science, cultivating interest in science and science learning and improving team work abilities.
- **Group and Individual assignments** help the students in improving their logical thinking and collaboration among team members to develop solutions for the real time problems which in turn improves their Employability Skills.



SETHU INSTITUTE OF TECHNOLOGY
(An Autonomous Institution| Accredited with 'A' Grade by NAAC)
PULLOOR, KARIAPATTI – 626 115.



DEPARTMENT OF PHYSICS

Activity Supports Employability/Skill Development

Subject Code: 19UPH103, 19UPH104, 19UPH203, 19UPH204, 19UPH205, 19UPH206, 19UPH207, 19UPH208, 19UGS113 & 19UGS210

Subject Name: Engineering Physics, Physics for Computing science, Material Physics, Biomaterial Physics, Physics for Information science, Building Physics, Green Physics, Electromagnetic Theory, Basic Sciences Laboratory and Energy and Environmental Science Lab

The following activities were conducted in the course for the students to support Employability / Skill Development

- **Mind map activity** helps student to note down only the most important information using keywords and then make connections between facts and ideas visually. It also helps the students to share their creative ideas on problem solving.
- **Think – Pair – Share** activity provides an opportunity to give voice to quieter students who might have difficulty sharing in a larger group, quick feedback for the instructor, encouragement and support for higher levels of thinking of the students.
- **Case study and Problem based learning activities** help the students in problem solving and decision making skills, develop student's critical thinking skills, encouraging critical reflection and enabling the appreciation of ambiguity in situations.
- **Group and Individual assignments** help the students in improving their logical thinking and collaboration among team members to develop solutions for the real time problems which in turn improves their Employability Skills.
- **Interactive demonstration** include novel visualizations of the material and allowing students to probe their own understanding by asking if they can predict the outcome of the demo. They are also a venue for providing applications of ideas and concepts.
- **Practical demonstration-** Physics lab experiences include enhancing mastery of engineering subject matter, developing scientific reasoning abilities, increasing understanding of the complexity and ambiguity of empirical work, developing practical skills, increasing understanding of the nature of science, cultivating interest in science and science learning and improving team work abilities.