III. Programme Objectives (PSOs):

- To develop strong student competencies in Physics and its applications in a technology-rich, interactive environment.
- To develop strong student skills in research, analysis and interpretation of complex information.
- To prepare the students to successfully compete for employment in Electronics, Manufacturing and Teaching and to offer a wide range of experience in research methods, data analysis to meet the industrial needs.

IV. Programme Outcomes (PCOs): On successful completion of the course a student will be able to:

- Apply knowledge and skill in the design and development of Electronics circuits to cater to the needs of Electronic Industry.
- Become professionally trained in the area of electronics, optical communication, nonlinear circuits, materials characterization and lasers.
- Excel in the research related to Physics and Materials characterization.
- Demonstrate highest standards of Actuarial ethical conduct and Professional Actuarial behaviour, critical, interpersonal and communication skills as well as a commitment to life-long learning.

V. M.Sc. Physics Programme Details

The duration of the M. Sc. Physics (Advanced Materials) programme (CCSS) shall be **2 (two)** years. This programme consists of **16 (sixteen)** theory courses, **3 (three)** lab courses, **1(one)** study tour and **1 (one)** project spread over **4 (four)** semesters. A student can earn **20 (twenty)** credits in 1st, 2nd, 4th semester and **22 (twenty-two)** credits in 3rd semester and total **82 (eighty-two)** credits in four semesters. Indirect grading patterns with **40%** internal and **60%** external marks will be followed. The course structure is as follows:

Theory Courses: There are sixteen theory courses - each with 4 credits - spread over four semesters in the M. Sc. programme. The distribution of the theory courses is as follows: