



Report on the Measures taken by Department of Mechanical Engineering for Slow and Advanced Learners

At the very beginning of the session a departmental meeting was conducted to discuss on academic, research and other activities of the department including status of all laboratories during the forthcoming session. All the faculties were instructed to adopt proper measures for Slow and Advanced learners and to give extra efforts for them. The department decided to adopt certain strategies to identify the Slow and Advanced learners and also to take appropriate measures to benefit both the Slow and Advanced learners.

Process of Identification of Slow and Advanced learners:

The process of assessment and identification of learning levels of the students was carried out based on the following:

- 1) The Slow and Advanced learners were identified for each subject separately by respective subject teacher for all the batches of students.
- 2) The process of identification was done based on performance of the students in Class Tests, Assignment Reports, Class Performance and observations of the subject teacher.
- 3) The following parameters were considered for Slow and Advanced learners:
 - a) Slow learners: Students who got less than 40% marks in the Class Test or did not participate in any discussion in the Class or having low attendance were considered as Slow learners.
 - b) Advanced learners: Students who got more than 80% marks in the Class Test and/or actively participated in the class discussion were considered as Advanced learners.

Objective of the programme for Slow learners and Role of the Department:

The Department and every individual teacher help slow learners by providing proper guidance and support to them. The department provided extra attention to Slow learners for their improvement and to achieve the following Objectives:

- i. To help slow learners identify areas of weakness and improve their understanding of key concepts in the respective subject.
- ii. To provide an opportunity for slow learners to revise important concepts in a comfortable environment.

- iii. To encourage slow learners to participate actively in the learning process and engage with their peers.
- iv. To motivate slow learners to continue their learning and understanding in the respective subject.

Objective of the programme for Advanced learners and Role of the Department:

The department encouraged advanced learners by conducting advanced classes beyond the course curriculum. These advanced classes were open to all and not limiting to advanced learners only. The advanced classes were conducted to achieve the following objectives:

- i. To support advanced learners in their quest for holistic knowledge.
- ii. To empower them to not only excel academically but also develop skills like problem-solving, innovation, and leadership.
- iii. To prepare them for higher academic pursuits and real-world challenges.

Activities conducted for Slow learners:

- Additional classes were conducted for problem solving sessions/ revision session.
- Remedial classes for theoretical subjects and demonstration classes for practical courses were conducted.
- Assignments in the form of solving previous year's examination paper were given to the slow learners.
- They are encouraged to represent the college in National and State-level intercollegiate competitions help showcase their talents and skills.
- Question bank was provided for practice.
- They were given personal attention and counselling to provide problem solving Techniques.

Activities conducted for Advanced learners:

- Advanced learners were provided with extra assignments covering diverse topics to challenge and expand their knowledge.
- They were encouraged to explore books beyond textbooks, fostering a deeper understanding of subjects and broadening their intellectual horizons.
- Advanced learners were motivated to become Team Leaders and assist other students in their assignments and presentations, nurturing leadership and teamwork skills.
- They were encouraged to complete NEPTEL and similar MOOCs courses.

- They were encouraged to prepare questionnaire and to conduct case studies and to involve in team building activities.
- Advanced learners were encouraged to present research papers in seminars and workshops, promoting research and communication skills.
- They were encouraged to represent the college in National and State-level intercollegiate competitions help showcase their talents and skills.