

CIRCULAR

Sub: Framework for TARP course

The course on 'Technical Answers to Real World Problems' (TARP) is introduced as an University Core course in the CAL Curriculum in order to provide an opportunity to the student to use technology and to provide solutions to problems faced by common man in their day to day real life. If properly executed, this course will not only provide an opportunity for application oriented learning but also will help in inculcating the sense of social responsibility in students.

Starter:

Students are required to identify real life problems and work in teams. The problem chosen should be specific and therefore students, under the guidance of the faculty, can go on field visits (within 200 Km) for identifying the day to day issues and, if solved, can improve the quality of living.

Requirement:

About 6 - 10 students can form a team. The composition of the team is recommended to be multi-disciplinary in nature and therefore it is advisable that 30 - 50% of the students in a group to be from other disciplines. The scheduled theory hour should be utilized for group discussions and one-to-one interactions in the presence of the faculty. Minimum of eight hours per week are needed to be spent on self-managed team activities. Records for the same should be maintained by each team.

Execution:

After identifying and defining the problem, methodology has to be framed using relevant scientific methods. The solution given should be based on fabrication /coding / modelling / product design / process design / other relevant methodology.

Assessment and Rubrics:

The outcome of the project should be evaluated in terms of technical, economical, social, environmental, political and demographic feasibility. Participation, involvement and contribution in the weekly group discussions (minimum 10) will be used as the criteria for the continuous assessments of the theory component. For the project component, assessment is based on three reviews with the weightage of 20, 30 and 50% for the first, second and final review, respectively. For the final review, it is mandatory that proper e-document is uploaded along with plagiarism check report. It is sufficient if each group submits one document for evaluation. However, the contribution of each member in the group should be mentioned in the e-document and will also be assessed during the reviews. Student should have a minimum of 75% attendance in discussions held during contact hours so as to be eligible for assessments.

