

Gujarat Technological University

BRIDGE COURSE

B.E. Semester 1
Duration: 4 Weeks
(w.e.f. July 2014)

Concept:

The State of Gujarat has a large number of students entering in engineering disciplines after their 10+2 classes. In spite of their good academic record and having good marks in JEE examination, students have virtually stopped studying after the month of April. Immediately after the admissions the concern areas are homesickness, sudden transition from vernacular to English language, teacher guided rote learning to applications based self learning and intermingling of a large cross section of students from vastly varying backgrounds. Thus the new academic environment and the teaching methodology build pressure in the minds of even the most confident of students, who then have to struggle on many fronts, to adjust to the campus culture, the class rooms and for those away from their homes, fend for themselves beyond college hours too.

As the students are unable to cope with the pace of teaching and the new campus life in general attention to concepts and understanding of the subject are challenged in the very beginning itself. . This affects their performance in first year end semester examination and subsequent exams in the higher semesters too.

Objective of Bridge Course:

The Bridge Course is aimed to act as a buffer for the new entrants, with an objective to provide adequate time for the transition to hardcore engineering courses. Students will be groomed for the foundation subjects of Mathematics, Elements of Engineering, Physics/Chemistry, English, Information and Communication Technology (ICT), Life Skills, State Cadet Corps (SCC), limited to 10+2 level. This gives them a breather, to prepare themselves before courses for first year engineering commence. During this interaction of 6 weeks with the faculty and their classmates, the students will be equipped with the knowledge and the confidence needed to take on bigger challenges as future engineers of this country. .

Design of Bridge Course:

Breaking away from the tradition of teaching in the Lecture-Tutorial-Practical mode, popularly used in engineering education, the Bridge Course is designed with a mixed set of activities during the class. Hence the teacher-student contact is not classified into number of hours for Lecture (Theory) class or Practical (Laboratory) classes but Interactive and Active Learning by Doing activity during the course have been weaved into the Bridge Course. Each

subject therefore has been allotted only number of contact hours without any distinction of theory and practical.

Duration: (4 Weeks)

Subjects:

Sr. No.	Subjects	Hours / Week
1	Mathematics	4
2	Physics/Chemistry	4
3	English Language	4
4	Life Skills	4
5	State Cadet Corps (SCC)	4
6	Information and Communication Technology (ICT)	4
7	Elements of Engineering (EE)	4
Total		28

Concept of Active Learning:

Active learning with the help of other students has been found to create an environment to make student learning very comfortable. Therefore the activity based learning is recommended and the details of various activity have been prescribed in the contents of the syllabus of each subject of the bridge course.

Evaluation:

The evaluation of the students for the bridge course subjects shall be through two modes:

1. Progressive Assessment, and
2. End Semester Examination

End Semester Examination pattern shall be in accordance with the circular dated 02/09/2013 and paper style for first year subjects shall be as per scheme available on GTU website.

Progressive Assessment shall be made as per the rubrics for evaluation mentioned in the detailed content of each subject.

At the end of the 4 week bridge course, the colleges have to submit the marks obtained by the student out of 50 marks for each subject of the bridge course. The marks shall be entered by the institute through **Online Marks Entry Portal** of the University.
