

Bridge Course for First Year Computer Engineering Students

Aim:

A bridge course for newly admitted students is conducted every year before the commencement of the first semester classes. The main objective of the course is to bridge the gap between subjects studied at Pre-university level and subjects they would be studying in Graduation. The aim of the Bridge Course is to bridge the academic and emotional gap between school-level education and the rigorous demands of the engineering curriculum, especially in Computer Engineering.

Introduction

The transition from school to college marks a significant change in the academic journey of students. To facilitate this shift and ensure a smooth beginning to their undergraduate program in Computer Engineering, a **two-week Bridge Course** has been designed. This course helps students fill the knowledge gap, get accustomed to the college environment, and develop a foundational understanding of key subjects essential for engineering education. It also encourages social interaction among peers and fosters early engagement with faculty members.

Objectives

- To refresh and strengthen the fundamentals in **Mathematics, Physics, and English**.
- To introduce **basic concepts of computer programming** to students from non-computer backgrounds.
- To provide hands-on exposure to **basic electrical, electronics, mechanical, and automobile systems** through workshops.
- To develop communication skills, time management, and teamwork through interactive sessions.
- To help students adapt to the **college culture and learning methodologies**.
- To promote interaction among students and help them build early peer relationships.

Benefits

- Smooth transition from school to college-level academics.
- Better understanding of foundational subjects required in engineering.
- Increased confidence in handling lab equipment and technical tasks.
- Improved communication and soft skills.
- Enhanced readiness for regular academic sessions.
- Early bonding with classmates and familiarity with the campus, reducing anxiety and fostering a sense of belonging.

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