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In House Project — Complete Syllabus

BTEUP Diploma in Computer Science & Engineering • 6th Semester • Session 2026-27
Subject 6.3 (Project) • Total 400 Marks • 12 Credits • L 4 – P 16

Note: The official syllabus gives no unit-wise topics, no practical list and no reference books for the In House Project — the project is defined by the assignment the student chooses, not by fixed units. The 6th-semester Normal Pathway totals 650 marks: 6.1 (100) + 6.2 (100) + 6.3 (400) + SCA (50). Subject 6.4 is qualifying only and its 50 marks are not counted in that total.

Examination Scheme

Code	Paper	Type	L - P	Credits	Internal	External	Total
6.3	In House Project	Project	4 - 16	12	Internal 240	Practical 160	400
In House Project Total				12	240	160	400

What This Subject Aims To Do

In House Project Work aims at developing innovative skills in the students whereby they apply in totality the knowledge and skills gained through the course work in the solution of a particular problem or by undertaking a project.

How the Project Works

The individual students have different aptitudes and strengths. Project work, therefore, should match the strengths of students. For this purpose, students should be asked to identify the type of project work they would like to execute. It is also essential that the faculty of the respective department may have a brainstorming to identify suitable project assignments for

their students. The project assignment can be an individual assignment or a group assignment. There should not be more than 3 students if the project work is given to a group. The students should identify themselves or accept the given project assignment at least two to three months in advance. The project work identified in collaboration with industry should be preferred. Each teacher is expected to guide the project work of 5–6 students.

Project Assignment Types

- Programming customer based applications
- Web page designing (Only dynamic)
- Database applications
- Software Development

Learning Outcomes

After undergoing this subject, the student will be able to:

- Use effectively oral, written and visual communication.
- Demonstrate skill and knowledge of current information and technological tools and techniques specific to the professional field of study.
- Identify, analyze and solve problems creatively through sustainment critical investigation.
- Develop leadership abilities.
- Apply fundamental and disciplinary concepts and methods in ways appropriate to their areas of study.

Practical Work and Reference Books

No separate practical list or reference books are given in the official syllabus for the In House Project.

Alternative — the Industrial Pathway

Instead of the Normal Pathway, a student may take the **Industrial Pathway** (also 650 marks): 6.1 Entrepreneurship and Start-ups (Online) — 100 marks; 6.2 Industrial Hands On Practice — 350 marks (150 by faculty mentor + 200 by industry); 6.3 Industrial Project — 100 marks (50 by faculty mentor + 50 by industry); 6.4 Seminar — 100 marks. The industrial training tenure should not be less than 14 weeks, the industry must be registered with MSME / Directorate of Industries / a Limited Organisation / State or Central Government establishments, and monthly progress reports of the intern/trainee should be attested and forwarded by the industrial supervisor during the internship/training.

follow the official syllabus; short explanations are the author's own plain-English summaries, not syllabus text.
Please confirm with your own polytechnic for any local changes.

