COURSE STRUCTURE

For

B.TECH. DEGREE

in

COMPUTER SCIENCE & ENGINEERING

(Applicable from the academic session 2024-2025)

Dr. B. C. Roy Engineering College

An Autonomous Institution

Approved by: All India Council for Technical Education (AICTE)
Affiliated to: Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly Known as -WBUT)

Jemua Road, Durgapur, West Bengal, India, 713206

• The first year course structure (Page 3 and Page 4) is unanimously accepted and approved in the first BoS meeting held in the Department of a) Physics, b) Chemistry, c) Mathematics, d) English, e) Electrical Engineering, f) Electronics and Communication Engineering, g) Computer Science and Engineering, h) Mechanical Engineering.

• The BoS of CSE (Computer Science and Engineering) in its first meeting (held in the Department of CSE (Computer Science and Engineering) on 6th November 2024 has unanimously accepted and approved the four year course structure of CSE (Computer Science and Engineering).

Head
Dept. Computer Science & Eng
Dr. B. C. Roy Engineering College
Durgapur

Semester 8								
Sl No	**Course Type**	**Paper Code**	**Paper Name**	**Marks**	**L**	**T**	**P**	**Credit**
Theory								
1	HM	CS801	Project Management & Entrepreneurship	100	3	0	0	3
2	PROJ	CS881	Project III	100	0	0	12 (S*)	6
3	VIVA	CS882	Comprehensive Grand Viva	100	0	0	2 (S*)	1
			Total Theory	300	3	0	14	10
Total Credits								**10**

Course Name: Project Management & Entrepreneurship

Course Code: CS801

(Semester-VIII)

Category: Major

Course Broad Category: Engineering Science Course

[For Computer Science and Engineering]

……

Course Name: Project III

Code: CS881

(Semester – VIII)

Category: Major

Course Broad Category: Engineering Science Course

[For Computer Science and Engineering]

……

1. **Course Prerequisite:**

- Completion of Project II (CS 781)
- Basic understanding of programming, software development, and project lifecycle

2. **Course Learning Objectives:**

- Identify research gaps and formulate a clear problem statement.
- Develop a working prototype or model addressing the identified problem.
- Prepare a detailed project report covering design, implementation, and evaluation.
- Apply project management techniques to execute the project effectively within the given timeline.
- Demonstrate teamwork, communication, and technical presentation skills.

3. **Teaching methodology and evaluation system for the course:**
   Teaching methodology –Presentations, Interactive Discussions and Case Studies.

   Evaluation System –

   A. Mid-Term Exam (20 Marks)- Summative Assessment (CIA-1)
   B. Internal Assessment (20 Marks)- Formative Continuous Assessment [Continuous Assessment 1 (CIA-2)]
   C. End-Semester Exam (60 Marks)- Summative Assessment.

4. **Course Content:**
   Course Name: Introduction to Computer Hardware and Software Course

   Course Code: CS881

   Hours per Week: 0L:0T:1P

   Credits: 6

Module	Topics	Lectures

6. References:

Text & Reference Books:

7. Course Outcomes:

Course Name	Project - III					
Course Code	CS881	Semester	VIII	Year of Study	2024-2025	Cognitive Level
Course Outcome						
CS881.1	Apply advanced programming techniques to identified real-world problems.					L3
CS881.2	Analyze the utility of solutions.					L4
CS881.3	Identify the social, health, safety, and cultural and legal issues associated with the findings.					L1
CS881.4	Demonstrate the findings to the academic, general, and industry communities, and manage any disputes and conflicts within and outside your team.					L3

8. Mapping of the Course outcomes to Program Outcomes

Course Name	Project III											
Course Code	CS881		Semester		VIII		Year of Study		2024-2025			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS881.1	2	2	3		3	1	1	2	3	3	3	3
CS881.2	2	3		1	3	3	3	3	3	3	3	3
CS881.3	2	1		1	3	3	3	3	3	3	3	3
CS881.4	2	2		1	3	3	3	3	3	3	3	3
CS881	2	2	3	1	3	2.5	2.5	2.75	3	3	3	3

9. Mapping to PSO

Course Name	Project III				
Course Code	CS881	Semester	VIII	Year of Study	2024-2025
COs	PSO1	PSO2		PSO3	PSO4
CS881.1	3	3		3	3
CS881.2	3	3		3	3
CS881.3	3	3		3	3
CS881.4	3	3		3	3
CS881.5	3	3		3	3