

COURSE OUTCOMES OF B.Tech(COMPUTER SCIENCE & ENGINEERING) UNDER CBCS

III SEMESTER

Computer Architecture And Organization

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PCS-302	Architecture	CO1	✓	✓	✓	✓		✓						✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓		✓						✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓		✓						✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓		✓						✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓		✓						✓		✓	✓	✓	✓

Object Oriented Programming through Java

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PCS-404	Programming	CO1	✓	✓	✓	✓						✓				✓	✓	✓	✓
		CO2	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓

Object Oriented Programming through Java lab

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PCS-404L	Programming lab	CO1	✓	✓	✓	✓						✓				✓	✓	✓	✓
		CO2	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓

Operating Systems

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PCS-403	Operating Systems	CO1	✓	✓	✓	✓					✓			✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓								✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓	✓						✓	✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓	✓			✓		✓	✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓	✓	✓			✓		✓	✓		✓	✓	✓	✓

Operating Systems Lab

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4

PCS-404L	ting System	CO1	✓	✓		✓	✓					✓	✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO4	✓	✓	✓								✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓							✓		✓	✓	✓	✓

DESIGN AND ANALYSIS OF ALGORITHMS

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PCS-402	NALYSIS O	CO1	✓	✓	✓	✓		✓			✓	✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓		✓			✓	✓		✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓		✓			✓	✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓		✓			✓	✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓		✓			✓	✓		✓		✓	✓	✓	✓

Data Structure using 'C'

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PCS-301	ata Structu	CO1	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓

Data structure lab

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PCS-301L	a structure	CO1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓

IT workshop lab

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
		CO1	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓	✓	✓			✓				✓	✓	✓	✓

PCS-303L	Workshop	CO3			✓	✓	✓		✓	✓		✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓

Compiler Design

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PC3201CS	Compiler Design	CO1	✓	✓	✓	✓	✓	✓			✓	✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓	✓			✓	✓		✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓	✓	✓			✓	✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓	✓			✓	✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓	✓	✓			✓	✓		✓		✓	✓	✓	✓

Compiler Design Lab

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PC3208CS	Compiler Design	CO1	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓

Computer Networks

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PC3208CS	Compiler Design	CO1	✓						✓			✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓					✓		✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓	✓					✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓					✓		✓		✓	✓	✓	✓
		CO5	✓	✓		✓			✓			✓		✓		✓	✓	✓	✓

Software Engineering

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PC3203CS	Software Engineering	CO1	✓	✓	✓	✓			✓		✓	✓	✓	✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓					✓	✓	✓	✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓		✓	✓	✓	✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PC3102C S	y of compu	CO1	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓	✓	✓			✓				✓	✓	✓	✓
		CO3			✓	✓	✓		✓	✓		✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓

DATABASE MANAGEMENTSYSTEMS

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PC3101C S	managemen	CO1	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓					✓				✓	✓	✓	✓
		CO3			✓	✓	✓					✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓					✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓	✓					✓		✓		✓	✓	✓	✓

Database ManagementSystemsLab

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PC3109C S	anagemen	CO1	✓	✓	✓	✓	✓				✓	✓		✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓				✓	✓				✓	✓	✓	✓
		CO3	✓	✓	✓	✓	✓				✓	✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓	✓				✓	✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓	✓				✓	✓		✓		✓	✓	✓	✓

Advance JAVAPROGRAMMING LABORATORY

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PE3104C S	OGRAMM	CO1	✓	✓	✓	✓						✓				✓	✓	✓	✓
		CO2	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO3	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO4	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓
		CO5	✓	✓	✓	✓						✓		✓		✓	✓	✓	✓

COURSE OUTCOMES OF B.Tech(COMPUTER SCIENCE AND ENGEENIRING) UNDER CBCS
VII SEMESTER

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4

PYTHON (PE4101CS)	CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
	CO2	✓	✓	✓	✓	✓							✓		✓			✓
	CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
	CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
	CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
SOFTWARE TESTING (PE4102CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
OBJECT ORIENTED ANAYSIS AND DESIGN (PE4103CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
MACHINE LEARNING (PE4104CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
SOFT COMPUTING (PE4105CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
CRYPTOGRAPHY AND NETWORK SECURITY (PE4106CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
CLOUD COMPUTING (PE4107CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome (SEMINARS)	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
Mini Project – II(PW4108CS)		CO1	✓	✓	✓	✓	✓							✓		✓		✓	✓
		CO2	✓		✓	✓	✓									✓			
		CO3	✓	✓		✓								✓				✓	✓
		CO4	✓	✓	✓	✓	✓						✓				✓		
		CO5	✓		✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
PYTHON LAB (PE4109CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
SOFTWARE TESTING LAB (PE4110CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
OBJECT ORIENTED ANAYSIS AND DESIGN LAB(PE4111CS)		CO1	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			✓
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓			✓		✓
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

COURSE OUTCOMES OF B.Tech(COMPUTER SCIENCE AND ENGINEERING) UNDER CBCS

VIII SEMESTER

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
DATA SCIENCE (PE4201CS)		CO1	✓	✓	✓	✓	✓							✓		✓		✓	✓
		CO2	✓	✓	✓	✓	✓							✓		✓			
		CO3	✓	✓	✓	✓	✓							✓			✓	✓	✓
		CO4	✓	✓	✓	✓	✓						✓	✓					
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
BIG DATA ANALYTICS (PE4202CS)		CO1	✓	✓	✓					✓		✓		✓		✓		✓	✓
		CO2	✓	✓	✓	✓				✓		✓		✓		✓			
		CO3	✓	✓	✓		✓			✓	✓			✓			✓	✓	✓
		CO4	✓	✓	✓	✓								✓		✓			
		CO5	✓	✓	✓				✓					✓					✓

Course Code	Course Name	Course Outcome	Programme Outcome													Programme Specific Outcome			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	PSO3	PSO4
IMAGE PROCESSING (PE4203CS)		CO1	✓	✓	✓	✓	✓						✓		✓		✓	✓	
		CO2	✓	✓	✓	✓	✓						✓		✓				
		CO3	✓	✓	✓	✓	✓						✓			✓	✓	✓	
		CO4	✓	✓	✓	✓	✓						✓	✓					
		CO5	✓	✓	✓	✓	✓							✓		✓			✓

[illegible]