

University of Engineering & Management, Kolkata
Department of Computer Science
Structured Syllabus

Semester : 4				
Theory Papers				
Sr. No	Type of Course	Course Code	Course Title	Credit Point
1	Basic Science Course	BSC401	Mathematics & Statistics - IV	3
2	Professional Core Course	PCC-CS401	Formal Language & Automata Theory	3
3	Professional Core Course	PCC-CS402	Design & Analysis of Algorithms	3
4	Professional Core Course	PCC-CS403	Database Management Systems	3
5	Professional Core Course	PCC-CS404	Computer Networks	3
6	Professional Core Course	PCC-CS405	Artificial Intelligence & Machine Learning Advanced	3
7	Humanities and social sciences including Management	HSMC401	Essential Studies for Professionals – IV	2
Total Credit Points of Theory				20
Practical Papers				
Sr. No	Type of Course	Course Code	Course Title	Credit Point
1	Professional Core Course	PCC-CS492	Design & Analysis of Algorithms Laboratory	1.5
2	Professional Core Course	PCC-CS493	Database Management Systems Laboratory	1.5
3	Professional Core Course	PCC-CS494	Computer Networks Laboratory	1.5
4	Professional Core Course	PCC-CS495	Artificial Intelligence & Machine Learning Advanced Laboratory	1.5
Total Credit Points of Practical				6
Sessional Papers				
5	Professional Core Course	PCC-CS481	Object Oriented Programming Using Java	1.5
6	Humanities and social sciences including Management	HSMC481	Skill Development for Professional – IV	1
7	Project	PROJ-CS481	Project – II	1
8	Mandatory Additional Requirements (MAR)	MC481	Mandatory Additional Requirements (MAR)	0.5
9	MOOCs (Mandatory for Honours)	MOOC 4	Massive Open Online Courses (Mandatory for B.Tech(Honours))	3
Total Credit Points of Sessional				7
Total Credit Points of Semester				33