Course Structure & Evaluation Scheme

School of Engineering & Technology Department of Computer Science B.Tech CS (AI & ML)

[Academic Session 2020-21]



UNITED UNIVERSITY, PRAYAGRAJ

School of Engineering & Technology 1 Year (1 & 2 Semester) Degree Programme United University, Prayagraj Course Structure & Evaluation Scheme 2020-2021 Session

	IOT						
Semester-1							
S.No	Papers-CS-AI_ML	Lecture (L)	Tutorial (T)	Practical (P)	Credit		
1	Mathematics – I	3	1	0	4		
2	Introduction to Programming Language/Communication for professional	3	0	0	3		
3	Engg. Physics/ Engg. Chemistry	3	0	0	3		
4	Basic Electrical & Electronics Engineering/Basics of computer hardware	3	1	0	4		
5	Physics Laboratory/Chemistry Laboratory	0	0	2	1		
6	Electrical/Electronics Laboratory	0	0	2	1		
7	Computer Programming/Communication Laboratory	0	0	2	1		
8	Engineering Drawing and Graphics/ Engineering Workshop	0	0	3	1		
9	Personality development I	2	0	0	1		
		14	2	9	19		
	Semester-2						
S.No	Papers-CS-AI_ML	Lecture (L)	Tutorial (T)	Practical (P)	Credit		
1	Mathematics – II	3	1	0	4		
2	Introduction to Programming Language/Communication for professional	3	0	0	3		
3	Engg. Physics/ Engg. Chemistry	3	0	0	3		
4	Basic Electrical & Electronics Engineering/Basics of computer hardware	3	1	0	4		
5	Physics Laboratory/Chemistry Laboratory	0	0	2	1		
6	Electrical/Electronics Laboratory	0	0	2	1		
7	Computer Programming/Communication Laboratory	0	0	2	1		
8	Engineering Drawing and Graphics/ Engineering Workshop	0	0	3	1		
9	Personality development II	2	0	0	1		
		14	2	9	19		

School of Engineering & Technology 2 Year (3 & 4 Semester) Degree Programme United University, Prayagraj Course Structure & Evaluation Scheme 2020-2021 Session

	Semester-3				
S.No	Papers-CS-AI_ML	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Mathematics – III	3	1	0	4
2	Digital Design and Computer Architecture	3	0	0	3
3	Data Structures using Python	3	0	0	3
4	Introduction to Object Oriented Techniques	3	1	0	4
5	Theory of Automata & Formal Languages	3	0	0	3
6	Digital Design and Comp Architecture Lab	0	0	2	1
7	Data Structure Lab	0	0	2	1
8	Automata Lab	0	0	2	1
9	OOT Lab	0	0	2	1
10	Quantitative Analysis/Verbal Ability	2	0	0	1
		17	2	8	22
	Semester-4				
S.No	Papers-CS-AI_ML	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Departmental Elective-1	3	0	0	3
2	Operating Systems	3	1	0	4
3	Data Base Management System	3	0	0	3
4	Computer Graphics	3	1	0	4
5	Data Communication and Networking	3	0	0	3
6	Operating Systems Lab	0	0	2	1
7	Data Base Management System Lab	0	0	2	1
8	Data Communication and Networking Lab	0	0	2	1
9	Computer Graphics Lab	0	0	2	1
10	Quantitative Analysis/Verbal Ability	2	0	0	1
		17	2	8	22

School of Engineering & Technology 3 Year (5 & 6 Semester) Degree Programme United University, Prayagraj Course Structure & Evaluation Scheme 2020-2021 Session

	Semester-5				
S.No	Papers-CS-AI_ML	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Design & Analysis of Algorithms	3	0	0	3
2	Compiler Design	3	1	0	4
3	Software Engineering	3	0	0	3
4	Distributed Systems	3	1	0	4
5	Advanced Java Programming	3	0	0	3
6	Introduction to Artificial Intelligence	3	0	0	3
7	DAA Lab	0	0	2	1
8	Advanced Java Programming Lab	0	0	2	1
9	Compiler Design Lab	0	0	2	1
10	Software Engineering Lab	0	0	2	1
11	Quantitative Analysis/Verbal Ability	2	0	0	1
		20	2	8	25
	Semester-6				
S.No	Papers-CS-AI_ML	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Introduction to Machine Learning	3	1	0	4
2	Web Technologies	3	1	0	4
3	Expert Systems	3	0	0	3
4	Natural Language Processing(NLP)	3	0	0	3
5	Sentiment Analysis	3	0	0	3
6	Program Elective-2	3	0	0	3
7	Introduction to Machine Learning Lab using Python	0	0	2	1
8	Web Technologies Lab	0	0	2	1
9	Seminar Presentation-1	0	0	2	1
	NII D Lab	0	0	2	1
10	NLP Lab	U	J		
10 11	Quantitative Analysis/Verbal Ability	2	0	0	1

School of Engineering & Technology 4 Year (7 & 8 Semester) Degree Programme United University, Prayagraj Course Structure & Evaluation Scheme 2020-2021 Session

	Semester-7	,			
S.No	Papers-CS-AI_ML	Lecture (L)	Tutorial(T)	Practical (P)	Credit
1	Deep Learning	3	1	0	4
2	Genetic Algorithms	3	0	0	3
3	Introduction to BIG DATA	3	1	0	4
4	Departmental Elective-3	3	0	0	3
5	Genetic Algorithms using MATLAB	0	0	2	1
6	Summer Internship Program-SIP	0	0	2	1
7	Seminar Presentation-2	0	0	4	2
8	Minor Project	0	0	10	5
9	Deep Learning Lab	0	0	2	1
10	GD/Interview	2	0	0	1
		14	2	20	25
	Semester-8	3			
S.No	Papers-CS-AI_ML	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Introduction to Cloud Computing	3	1	0	4
2	Cyber Security	3	0	0	3
3	Multimedia & Animation	3	0	0	3
4	Major Project	0	0	20	10
5	Internship	0	0	8	4
6	Education Achievement Activity	0	0	2	1
		9	1	30	25

Elective Type				
Departmental Elective-1				
Computer Vision				
Optimization Techniques				
Business Intelligence				
Application of Soft computing				
Cognitive Computing				
Program Elective-2				
Applied Time-Series Analysis				
Information Retrieval and Web Search				
Numerical linear algebra for data analysis				
Graph Analytics for Big Data				
Bayesian Data Analysis				
Departmental Elective-3				
Distributed Systems				
Pattern Recognition				
Neural Network				
Parallel Computing				
Distributed Database Systems				