

PARUL UNIVERSITY
Centre for Distance and Online Education
Bachelor of Computer Application – Online
Program Structure with Credit Points

Semester 1		
Sr. No.	Course title	Credits
1.	Programming using C & C++	4
2.	Computer System & Peripherals	4
3.	Mathematics	3
4.	Communication Skills	2
5.	Web Development	3
6.	Common Value-Added Course - 1	2
7.	Common Value-Added Course - 2	2
TOTAL		20
Semester 2		
Sr. No.	Course title	Credits
1.	Database Management System	4
2.	Software Engineering	4
3.	Principles of Management	3
4.	Professional Communication Skills	2
5.	Open-Source Technology using PHP	3
6.	Common Value-Added Course - 3	2
7.	Common Value-Added Course - 4	2
TOTAL		20
Semester 3		
Sr. No.	Course title	Credits
1.	Operating System	4
2.	Computer Network	4
3.	Programming in Python	4

4.	Digital Electronics	3
5.	Personality Development	2
6.	Web Application Development Using ASP.NET	3
7.		
TOTAL		20

Semester 4

Sr. No.	Course title	Credits
1.	Data Structures & Algorithms	5
2.	Category Subject (Major)	5
3.	Java Programming	4
4.	Category Subject (Minor)	4
5.	Human Values and Professional Ethics	2
TOTAL		20

Category 1: - Major in AIML Minor in IOT

1.	Category 1_Subject (Major) - Artificial Intelligence	5
2.	Category 1_Subject (Minor) - Microprocessor & Microcontroller	4

Category 2: - Major in CSBC Minor in AIML

1.	Category 2_Subject (Major) - Information & Network Security	5
2.	Category 2_Subject (Minor) - Artificial Intelligence	4

Semester 5

Sr. No.	Course title	Credits
1.	Advanced Java	5
2.	Category Subject (Major)	5
3.	Elective - 1	4
4.	Category Subject (Minor)	4
5.	Summer Internship	2
TOTAL		20

Elective 1 Pool

1.	Data Mining & Data Warehousing	4
2.	Information & Network Security	4
3.	Principle of Robotics	4
4.	Cloud Computing	4

Category 1: - Major in AIML Minor in IOT

1.	Category 1_Subject (Major) - Machine Learning	5
2.	Category 1_Subject (Minor) - Cloud Computing	4
Category 2: - Major in CSBC Minor in AIML		
1.	Category 2_Subject (Major) - Cyber Security	5
2.	Category 2_Subject (Minor) - Machine Learning	4
Semester 6		
Sr. No.	Course title	Credits
1.	Compiler Design	4
2.	Category Subject (Major)	4
3.	Mobile Application Development	4
4.	Elective - 2	4
5.	Category Subject (Minor)	4
6.	Project - I	4
TOTAL		24
Elective 2 Pool		
1.	Data Science	4
2.	Cyber Security	4
3.	Automation System	4
4.	Internet of Things	4
Category 1: - Major in AIML Minor in IOT		
1.	Category 1_Subject (Major) - Deep Learning	4
2.	Category 1_Subject (Minor) - Internet of Things	4
Category 2: - Major in CSBC Minor in AIML		
1.	Category 2_Subject (Major) - Blockchain Technology	4
2.	Category 2_Subject (Minor) - Deep Learning	4

Total Credit of the Course

Semester	Credits
Semester 1	20
Semester 2	20
Semester 3	20
Semester 4	20
Semester 5	20
Semester 6	24
Total Credit of the Course	124