

**BCA (DATA SCIENCE)**  
**(Three-year programme 2024 -2027)**

**Course Structure**

**Semester-I**

<b>Sl. No</b>	<b>Course Basket</b>	<b>Subject Name</b>	<b>Credits</b>
1	Core	Fundamentals of Computer	4
2	Core	OOPs with C ++ Programming	4
3	Ability Enhancement	Job Readiness	6
4	Value added	Environmental Science	4
		Total	18

**Semester-II**

<b>Sl. No</b>	<b>Course Basket</b>	<b>Subject Name</b>	<b>Credits</b>
1	Core	Office Automation	4
2	Core	Data Structures using C++	4
3	Core	Java Programming	4
4	Multi Disciplinary	Discrete Mathematical Structure	4
5	Skill	Excel	2
		Total	18

**Semester-III**

<b>Sl. No</b>	<b>Course Basket</b>	<b>Subject Name</b>	<b>Credits</b>
1	Core	Database Management Systems	4
2	Core	Python Programming	4
3	Core	Internet and Web Technology	4
4	Skill	Digital Painting	4
5	Value added	Climate Change, Sustainability and Organisation	3
6	Value added	Indian Society and Culture	2
		Total	21

**Semester-IV**

Sl. No	Course Basket	Subject Name	Credits
1	Core	Machine Learning using Python	4
2	Core	Operating System Concepts	4
3	Core	Fundamentals of Algorithm Design and Analysis	4
4	Internship	Summer Internship / Community Engagement	4
5	Value added	Gender, Human Rights and Ethics	3
		Total	19

**Semester-V**

Sl. No	Course Basket	Subject Name	Credits
1	Multi Disciplinary	ML for Predictive Analysis	4
2	Multi Disciplinary	ML for Image Analytics	4
3	Multi Disciplinary	Data Analytics using Tableau	4
4	Multi Disciplinary	ML for Hyperspectral imaging	6
5		Project	6
		Total	24

**Semester-VI**

Sl. No	Course Basket	Subject Name	Credits
1	Core	Computer Communication and Networking	4
2	Core	Introduction to Software Engineering	4
4	Core	Dot Net Technology	4
5	Core	Computer System Architecture	4
6	Skill	Business Plan Preparations	4
		Total	20