

Supplementary Subjects	
BCA	
1	21CSA113 Programming in C
2	21CUL111 Cultural Education II
3	21MAT232 Discrete Mathematics
4	21SAN111 Sanskrit II
5	21MAT231 Mathematical Foundation for Computer Science
6	21CSA114 Computer Organization
7	21SSK201 Life Skills I
8	21CSA339 Soft Computing
9	21OEL278 The Message of Bhagwad Gita
10	21SSK211 Life Skills II
11	21CSA112 Database Management System
12	21CSA201 Data Structures and Algorithms
13	21CSA202 Object Oriented Programming using Java
14	21CSA203 Operating Systems
15	21AVP211 Amrita Values Programme II
16	21CSA212 Computer Networks
17	21CSA213 Advanced JAVA and J2EE
18	21CSA331 Artificial Intelligence
19	21CSA215 Software Engineering
20	21CSA340 Systems and Network Administration
21	21CSA303 Mobile Application Development
22	21SSK301 Life Skills III
23	21CSA312 Cryptography and Cyber Security
24	21MAT233 Statistical and Numerical Methods
25	21CSA214 Web Technologies
26	21CSA301 Data warehousing and Data Mining
27	21CSA302 Python Programming
28	21CSA341 Computer Graphics
29	21CSA342 IoT Architectures and Programming
30	21CSA204 Principles of Management and Accounting
31	21CSA283 Object Oriented Programming Lab using JAVA
32	18MAT208 Statistical and Numerical Methods
33	18CSA211 Software Engineering
34	18CSA214 Computer Networks
35	18CSA111 Computer Organization
36	18AVP201 Amrita Values Programme I
37	18CSA206 Object Oriented Programming using C++
38	18CSA209 Data Structures and Algorithms
39	18CSA215 Java Programming

40	18CSA311 Artificial Intelligence
41	18AVP211 Amrita Values Programme II
42	18CSA216 Web Technologies
43	18CSA306 Advanced Java and J2EE
44	18OEL241 Fundamentals of Network Administration
45	18CSA317 Computer Graphics
46	18CSA318 Cryptography and Cyber Security
47	18CSA342 Systems and Network Administration
48	18CSA307 C# and .NET Framework
49	22ADM101 Foundations of Indian Heritage
50	21OEL264 Managing Failure
51	21CSA103 Computer Essentials
52	21CSA106 Problem Solving and Algorithmic Thinking
53	21ENV200 Environmental Science and Sustainability
54	21ENG101 Communicative English
55	21SAN101 Sanskrit 1
BCA DATA SCIENCE	
1	21CUL111 Cultural Education II
2	20CSA101 Computer Essentials for Data science
3	21OEL271 Personal Effectiveness
4	21SSK211 Life Skills II
5	20CSA339 Bioinformatics
6	20CSA332 Introduction to IoT
7	20CSA301 Artificial Intelligence
8	21SSK301 Life Skills III
9	20CSA312 Data Governance
10	20CSA345 Business intelligence
11	20CSA302 Machine Learning
12	20CSA336 Image Processing
13	20CSA342 Natural Language Processing
14	20CSA303 Cloud Computing
15	20CSA311 Big Data Analytics and Visualization
16	21OEL264 Managing Failure
17	20CSA111 Database Management System
18	21OEL253 Indian Writing in English
19	20MAT101 Mathematical Foundations for Data science
20	20CSA201 Exploratory Data Analysis Using Python
21	20CSA212 R Programming for Data Science
22	20CSA112 Object Oriented Programming using Java

23	20CSA113 Operating Systems
24	20MAT111 Statistics and Probability
25	20CSA202 Data Structures and Algorithms
26	20CSA203 Computer Networks
27	20CSA211 Data mining
28	20CSA213 Software Engineering
29	20CSA214 Web Technologies
30	20MAT201 Linear Algebra for Data Science
31	20CSA336 Image Processing
32	20MAT202 Inferential Statistics
33	21ENG101 Communicative English
34	23CSA102 Computer Essentials
35	22ADM111 Glimpses of Glorious India
36	23MAT108 Discrete Mathematics
37	23CSA111 Database Management System
38	23CSA115 Object Oriented Programming using Java
39	23CSA116 Operating System
40	21ENV200 Environmental Science and Sustainability
41	23MAT118 Probability and Statistics
42	23CSA103 Problem solving and Programming