

Syllabus wef 2022

First Year (FY-BSC CS)

SEMESTER – I (Total 7 papers, 20 Credit points)

Course Code	Course Name	Credit Point
USCS - 101	Digital Systems & Architecture	02
USCS - 102	Introduction to Programming with Python	02
USCS - 103	LINUX Operating System	02
USCS - 104	Open Source Technologies	02
USCS - 105	Discrete Mathematics	02
USCS - 106	Descriptive Statistics	02
USCS - 107	Soft Skills	02
USCSP - 101	Digital Systems & Architecture Practical Index List	01
USCSP - 102	Introduction to Programming with Python Practical Index List	01
USCSP - 103	LINUX Operating System Practical Index List	01
USCSP - 104	Open Source Technologies Practical Index List	01
USCSP - 105	Discrete Mathematics Practical Index List	01
USCSP - 106	Descriptive Statistics Practical Index List	01

Semester – II (Total 7 papers, 20 Credit points)

Course Code	Course Name	Credit Point
USCS - 201	Design & Analysis of Algorithms	02
USCS - 202	Advanced Python Programming	02
USCS - 203	Introduction to OOPs using C++	02
USCS - 204	Database Systems	02
USCS - 205	Calculus	02
USCS - 206	Statistical Methods	02
USCS - 207	E-Commerce & Digital Marketing	02
USCSP - 201	Design & Analysis of Algorithms Practical Index List	01
USCSP - 202	Advanced Python Programming Practical Index List	01
USCSP - 203	Introduction to OOPs using C++ Practical Index List	01
USCSP - 204	Database Systems Practical Index List	01
USCSP - 205	Calculus Practical Index List	01
USCSP - 206	Statistical Methods Practical Index List	01

Second Year (SY-BSC CS)

Semester – III (Total 7 papers, 20 Credit points)

Course code	Course Name	Credit Point
USCS - 301	Principles of Operating Systems	02
USCS - 302	Linear Algebra	02
USCS - 303	Data Structures	02
USCS - 304	Advanced Database Concepts	02
USCS - 305	Java based Application Development	02
USCS - 306	Web Technologies	02
USCS - 3072	Green Technologies	02
USCSP - 301	Principles of Operating Systems Practical Index List	01
USCSP - 302	Linear Algebra Practical Index List	01
USCSP - 303	Data Structures Practical Index List	01
USCSP - 304	Advanced Database Concepts Practical Index List	01
USCSP - 305	Java based Application Development Practical Index List	01
USCSP - 306	Web Technologies Practical Index List	01

Semester – IV (Total 7 papers, 20 Credit points)

Course code	Course Name	Credit Point
USCS - 401	Theory of Computation	02
USCS - 402	Computer Networks	02
USCS - 403	Software Engineering	02
USCS - 404	IoT Technologies	02
USCS - 405	Android Application Development	02
USCS - 406	Advanced Application Development	02
USCS - 4071	Research Methodology	02
USCSP - 401	Theory of Computation Practical Index List	01
USCSP - 402	Computer Networks Practical Index List	01
USCSP - 403	Software Engineering Practical Index List	01
USCSP - 404	IoT Technologies Practical Index List	01
USCSP - 405	Android Application Development Practical Index List	01
USCSP - 406	Advanced Application Development Practical Index List	01

Third Year (TY-BSC CS)**Semester – V (Total 6 papers, 20 Credit points)**

Course code	Course Name	Credit Point
USCS502	Linux Server Administration	03
USCS503	Software Testing and Quality Assurance	03
USCS504	Information and Network Security	03
USCS506	Web Services	03
USCS507	Game Programming	02
USCSP501	Practical of Elective –I Practical Index List	02
USCSP - 502	Practical of Elective –II Practical Index List	02
USCSP - 503	Project Implementation	01
USCSP - 504	Practical of Skill Enhancement : USC507 Practical Index List	01

Semester – VI (Total 6 papers, 20 Credit points)

Course code	Course Name	Credit Point
USCS601	Wireless Sensor Networks and Mobile Communication	03
USCS603	Cyber Forensics	03
USCS604	Information Retrieval	03
USCS605	Digital Image Processing	03
USCS607	Ethical Hacking	02
USCSP601	Practical of Elective- I Practical Index List	02
USCSP602	Practical of Elective- II Practical Index List	02
USCSP - 603	Project Implementation	01
USCSP - 604	Practical of Skill Enhancement: USC607 Practical Index List	01