

# Syllabus wef 2018

## First Year (FY-BSC CS)

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

Course Code	Course Name	Credit Point
USCS - 101	Digital Systems & Architecture	03
USCS - 102	Introduction to Programming with Python	03
USCS - 103	LINUX Operating System	03
USCS - 104	Open Source Technologies	03
USCS - 105	Discrete Mathematics	03
USCS - 106	Descriptive Statistics	03
USCS - 107	Soft Skills	02
USCSP - 101	Practical Index List - <a href="#">Digital Systems &amp; Architecture</a>	-
USCSP - 102	Practical Index List - <a href="#">Introduction to Programming with Python</a>	-
USCSP - 103	Practical Index List - <a href="#">LINUX Operating System</a>	-
USCSP - 104	Practical Index List - <a href="#">Open Source Technologies</a>	-
USCSP - 105	Practical Index List - <a href="#">Discrete Mathematics</a>	-
USCSP - 106	Practical Index List - <a href="#">Descriptive Statistics</a>	-

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

Course Code	Course Name	Credit Point
USCS - 201	Design & Analysis of Algorithms	03
USCS - 202	Advanced Python Programming	03
USCS - 203	Introduction to OOPs using C++	03
USCS - 204	Database Systems	03
USCS - 205	Calculus	03
USCS - 206	Statistical Methods	03
USCS - 207	E-Commerce & Digital Marketing	02
USCSP - 201	Practical Index List - <a href="#">Design &amp; Analysis of Algorithms</a>	-
USCSP - 202	Practical Index List - <a href="#">Advanced Python Programming</a>	-
USCSP - 203	Practical Index List - <a href="#">Introduction to OOPs using C++</a>	-
USCSP - 204	Practical Index List - <a href="#">Database Systems</a>	-
USCSP - 205	Practical Index List - <a href="#">Calculus</a>	-
USCSP - 206	Practical Index List - <a href="#">Statistical Methods</a>	-

## Second Year (SY-BSC CS)

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

Course code	Course Name	Credit Point
USCS - 301	Theory of Computation	02
USCS - 302	Core JAVA	03
USCS - 303	Operating System	03
USCS - 304	Database Management Systems	03
USCS - 305	Combinatorics and Graph Theory	03
USCS - 306	Physical Computing and IoT Programming	03
USCS - 307	Skill Enhancement: Web Programming	03
USCSP - 301	Practical of USCS302+USCS303+USCS304 Practical Index List - <a href="#">Core JAVA</a> Practical Index List - <a href="#">Operating System</a> Practical Index List - <a href="#">Database Management Systems</a>	-
USCSP - 302	Practical of USCS305+USCS306+USCS307 Practical Index List - <a href="#">Combinatorics and Graph Theory</a> Practical Index List - <a href="#">Physical Computing and IoT Programming</a> Practical Index List - <a href="#">Skill Enhancement: Web Programming</a>	-

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

Course code	Course Name	Credit Point
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USCS - 401	Fundamentals of Algorithms	03
USCS - 402	Advanced JAVA	03
USCS - 403	Computer Networks	03
USCS - 404	Software Engineering	02
USCS - 405	Linear Algebra using Python	03
USCS - 406	NET Technologies	03
USCS - 407	Skill Enhancement: Android Developer Fundamentals	03
USCSP - 401	Practical of USCS401+USCS402+USCS404 Practical Index List - <a href="#">Fundamentals of Algorithms</a> Practical Index List - <a href="#">Advanced JAVA</a> Practical Index List - <a href="#">Software Engineering</a>	-
USCSP - 402	Practical of USCS405+USCS406+USCS407 Practical Index List - <a href="#">Linear Algebra using Python</a> Practical Index List - <a href="#">NET Technologies</a> Practical Index List - <a href="#">Skill Enhancement: Android Developer Fundamentals</a>	-

### Third Year (TY-BSC CS)

#### Semester – V (Total 6 papers, 20 Credit points)

Course code	Course Name	Credit Point
82902	<a href="#">Linux Server Administration</a>	04
82903	<a href="#">Software Testing and Quality Assurance</a>	04
82904	<a href="#">Information and Network Security</a>	04
82906	<a href="#">Web Services</a>	04
82907	<a href="#">Game Programming</a>	02
USCSP - 502	Practical of Elective –II <a href="#">Practical Index List</a>	-
USCSP - 503	Project Implementation	02
USCSP - 504	Practical of Skill Enhancement:USCS507 <a href="#">Practical Index List</a>	-

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

Course code	Course Name	Credit Point
87001	<a href="#">Wireless Sensor Networks and Mobile Communication</a>	04
87003	<a href="#">Cyber Forensics</a>	04
87004	<a href="#">Information Retrieval</a>	04
87005	<a href="#">Digital Image Processing</a>	04
87007	<a href="#">Ethical Hacking</a>	02
USCSP - 601	Practical of Elective- I <a href="#">Practical Index List</a>	-
USCSP - 602	Practical of Elective- II <a href="#">Practical Index List</a>	-
USCSP - 603	Project Implementation	02
USCSP - 604	Practical of Skill Enhancement: USCS607 <a href="#">Practical Index List</a>	-