

## Syllabus of B.Sc. Computer Science

### **F.Y.B.Sc. Computer Science Syllabus Credit Based System and Grading System Academic year 2016-2017**

<b>Semester – I</b>				
<b>Course Code</b>	<b>Course Type</b>	<b>Course Title</b>	<b>Credits</b>	<b>Lectures/Week</b>
USCS101	Core Subject	Computer Organization and Design	2	3
USCS102	Core Subject	Programming with Python- I	2	3
USCS103	Core Subject	Free and Open Source Software	2	3
USCS104	Core Subject	Database Systems	2	3
USCS105	Core Subject	Discrete Mathematics	2	3
USCS106	Core Subject	Descriptive Statistics and Introduction to Probability	2	3
USCS107	Ability Enhancement Course 1	Soft Skills Development	2	3
USCSP01	Core Subject Practical	Practical of USCS101 + USCS102 + USCS103+USCS104+USCS105+USCS106	6	18

<b>Semester – II</b>				
<b>Course Code</b>	<b>Course Type</b>	<b>Course Title</b>	<b>Credits</b>	<b>Lectures/Week</b>
USCS201	Core Subject	Programming with C	2	3
USCS202	Core Subject	Programming with Python– II	2	3
USCS203	Core Subject	Linux	2	3
USCS204	Core Subject	Data Structures	2	3
USCS205	Core Subject	Calculus	2	3
USCS206	Core Subject	Statistical Methods and Testing of Hypothesis	2	3
USCS207	Ability Enhancement Course 2	Green Technologies	2	3
USCSP02	Core Subject Practical	Practical of USCS201 + USCS202 + USCS203+USCS204+USCS205+USCS206	6	18

**S.Y.B.Sc. Computer Science Syllabus  
Credit Based System and Grading System  
Academic year 2016-2017**

**SEMESTER III**

Course	TOPICS	Credits	Lecture/ Week
USCS301	Discrete Mathematics	2	3
USCS302	Object Oriented Design using UML and Python	2	3
USCS303	Data Structures and Algorithms Using Python	2	3
USCSP03	Practical of USCS301 + USCS302 + USCS303	3	9

**SEMESTER IV**

Course	TOPICS	Credits	Lecture/ Week
USCS401	Operating System and Linux	2	3
USCS402	Java Programming	2	3
USCS403	Web Technologies	2	3
USCSP04	Practical of USCS401 + USCS402 + USCS403	3	9

**TYBSc Computer Science - Semester V**

Main	Theory Subjects
Paper I	Data Communication & Networking
Paper II	Advanced Java
Paper III	Operating Systems
Paper IV	DBMS

Applied Component	Theory Subjects
AC	Principles of Web Design and Web Technologies & Dot Net Technologies

### **TYBSc Computer Science - Semester VI**

Main	Theory Subjects
Paper I	Networking & Security
Paper II	Advanced Java
Paper III	Linux
Paper IV	Software Engineering & Testing

Applied Component	Theory Subjects
AC	Principles of Web Design and Web Technologies & Dot Net Technologies