



F.Y.B.Sc. Computer Science Syllabus
Credit Based System and Grading System
F.Y.B.Sc. (SEM - I and SEM - II) Computer
Science Practical Course

Semester I				
Course Code	Course Type	Course Title	Credits	Lectures /Week
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
USCSP101	Core Subject Practical	Practical of USCS101 + USCS102	2	6
USCSP102	Core Subject Practical	Practical of USCS103 + USCS104	2	6
USCSP103	Core Subject Practical	Practical of USCS105 + USCS106	2	6

Semester II				
Course Code	Course Type	Course Title	Credits	Lectures /Week
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	Database 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
USCSP201	Core Subject Practical	Practical of USCS201 + USCS202	2	6
USCSP202	Core Subject Practical	Practical of USCS203 + USCS204	2	6
USCSP203	Core Subject Practical	Practical of USCS205 + USCS206	2	6



S.Y.B.Sc. Computer Science Syllabus
Credit Based Semester and Grading System

(SEM - III and SEM - IV)

To be implemented from Academic year 2018 - 2019

Semester III			
Course Code	Topics	Credits	Lectures /Week
USCS301	Theory of Computation	2	3
USCS302	Core JAVA	2	3
USCS303	Operating System	2	3
USCS304	Database Management Systems	2	3
USCS305	Combinatorics and Graph Theory	2	3
USCS306	Physical Computing and IoT Programming	2	3
USCS307	Skill Enhancement : Web Programming	2	3
USCSP301	USCS302 + USCS303 + USCS304	3	9
USCSP302	USCS305 + USCS306 + USCS307	3	9

Semester IV			
Course Code	Topics	Credits	Lectures /Week
USCS401	Fundamentals of Algorithms	2	3
USCS402	Advance JAVA	2	3
USCS403	Computer Networks	2	3
USCS404	Software Engineering	2	3
USCS405	Linear Algebra using Python	2	3
USCS406	.NET Technologies	2	3
USCS407	Skill Enhancement : Android Developer Fundamentals	2	3
USCSP401	USCS401 + USCS402 + USCS403	3	9
USCSP402	USCS405 + USCS406 + USCS407	3	9