Andhra Pradesh State Council of Higher Education

Course Structure of B.Sc. Computer Science Under CBCS

w.e.f.2015-2016

Structure of Computer Science Syllabus

Semester	Paper	Subject	Hrs	Credits	IA	ES	Total
FIRST YEAR							
I	I	Computer Fundamentals and Photoshop	4	3	25	75	100
		Photo Shop Lab	2	2	0	50	50
II	II	Programming in C	4	3	25	75	100
		Programming in C Lab	2	2	0	50	50
SECOND YEAR							
III	III	Object Oriented Programming Using Java	4	3	25	75	100
		Object Oriented Programming Using Java Lab	2	2	0	50	50
IV	IV	Data Structures	4	3	25	75	100
		Data Structures using Java Lab	2	2	0	50	50
THIRD YEAR							
V	V	DBMS	3	3	25	75	100
		DBMS Lab	2	2	0	50	50
	VI	Software Engineering	3	3	25	75	100
		Project- 1	2	2	0	50	50
VI	VII (A/B/C)	**Elective-I**					
		A. Operating Systems	3	3	25	75	100
		Operating Systems Lab	3	2	0	50	50
		B. Computer Networks	3	3	25	75	100
		Computer Networks Lab	3	2	0	50	50
		C. Web Technologies	3	3	25	75	100
		Web Technologies Lab	3	2	0	50	50
	VIII Cluster – A-A1,A2 or Cluster-B-B1,B2 Or Cluster – C – C1,C2	**Elective-II(Cluster A)**					
		A1.Foundations of Data Science	3	3	25	75	100
		Foundations of Data Science Lab (through R)	3	2	0	50	50
		A2.Big Data Technology	3	3	25	75	100
		Big Data Technology Lab (Hadoop)	3	2	0	50	50
		Elective-II(Cluster B)					
		B1. Distributed Systems	3	3	25	75	100
		Distributed Systems Lab	3	2	0	50	50
		B2. Cloud Computing	3	3	25	75	100
		Cloud Computing Lab	3	2	0	50	50
		Elective-II(Cluster C)					
		C1. PHP – MySql & Wordpress	3	3	25	75	100
		PHP-MySql & Wordpress Lab	3	2	0	50	50
		C2. Advanced JavaScript : JQuery, Ajax, Angular JS & JSON	3	3	25	75	100
		Advanced JavaScript Lab	3	2	0	50	50
		Project – 2	5	5	50	100	150

Program Outcomes:

The expected outcomes of the program are

- Possess a sound understanding of the theoretical foundations of various core subjects.
- Acquire analytical and logical thinking skills necessary to pursue higher education.
- Gain employment at entry level positions based on program curriculum.

Program Specific Outcomes:

- Master a broad set of knowledge concerning the fundamentals in the basic areas of Computer Science and Mathematics added with the necessary hands-on experience in various practical aspects of problem solving and programming.
- The program imparts students with an understanding of the basics of Computer Science, to develop proficiency in the practice of computing, and to prepare them for continued professional development.