

UNIVERSITY OF CALICUT

Abstract

B.Sc Programme in Computer Science – under CUCBCSS UG 2014 – Scheme and Syllabus approved - implemented w.e.f 2014 admission onwards- Orders issued.

G & A - IV - J

U.O.No. 6931/2014/Admn

Dated, Calicut University.P.O, 17.07.2014

Read:-1. U.O. No. 3797/2013/CU, dated 07.09.2013 (CBCSS UG Modified Regulations) (File.ref.no. 13752/GA IV J SO/2013/CU).

- 2. U.O. No. 5180/2014/Admn, dated 29.05.2014 (CBCSS UG Revised Regulations) (File.ref.no. 13752/GA IV J SO/2013/CU).
- 3. Item No: 1 of the minutes of BOS in Computer Science UG held on 28.1.14
- 4. Minutes of the meeting of Faculty of Science held on 3.2.14
- 5. Item II (i). of the minutes of Academic Council held on 20.3.14

ORDER

The Modified Regulations of Choice Based Credit Semester System for UG Curriculum w.e.f 2014 was implemented under the University of Calicut vide paper read as (1). The Revised CUCBCSS UG Regulations has been implemented w.e.f 2014 admission, for all UG programme under CUCBCSS in the University, vide paper read as (2).

As per The paper read as (3) the Scheme and Syllabus of B.Sc Programme in Computer Science under Choice based Credit Semester System (UG) was approved by the Board of Studies in Computer Science UG. As per paper read as (4) above, the Faculty of Science has approved this minutes and as per paper read as 5 above the AC has approved it.

Sanction has therefore been accorded for implementing the Scheme and Syllabus of B.Sc Programme in Computer Science with effect from 2014 admission onwards.

Orders are issued accordingly. Revised Syllabus appended.

Muhammed S

Deputy Registrar

То

- 1. All Affiliated Colleges/SDE/Dept.s/Institutions under University of Calicut.
- 2. The Controller of Examinations, University of Calicut.
- 3. The Director SDE, University of Calicut.

Forwarded / By Order

Section Officer

UNIVERSITY OF CALICUT

THENHIPALAM, CALICUT UNIVERSITY P.O.



DEGREE OF BACHELOR OF SCIENCE (B.Sc)

COMPUTER SCIENCE
(CHOICE BASED CREDIT AND SEMESTER SYSTEM)



SYLLABUS

(FOR THE STUDENTS ADMITTED FROM THE ACADEMIC YEAR 2014 – 15 ONWARDS)

BOARD OF STUDIES IN COMPUTER SCIENCE (UG)

THENHIPALAM, CALICUT UNIVERSITY P.O KERALA, 673 635, INDIA JULY, 2014

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B.Sc. Computer Science Programme Structure

SEMESTER I

Course	Course	TD:	Hours		Marks		C 1'4
No.	Code	Title	Т	P	Int.	Ext.	Credit
01	XXXXA01	Communication Skills in English	5	0	20	80	4
02	XXXXA02	Critical Reasoning, Writing and Presentation	4	0	20	80	3
03	XXXXA07	Communication Skill in Languages other than English	4	0	20	80	4
04	BCS1B01	Problem Solving Using C	2	2	20	80	3
05	XXXXC01	Complementary Mathematics	4	0	20	80	3
06	XXXXC01	Optional Complementary I*	4	0	20	80	3
		Total	2	5	6	00	20

SEMESTER II

Course	Course	Title	Hours		Ma	arks	Credit
No.	Code	Tiue	T	P	Int.	Ext.	Credit
07	XXXXA03	Reading Literature in English	5	0	20	80	4
08	XXXXA04	Reading on Indian Constitution Secularism and Sustainable Environment	4	0	20	80	3
09	XXXXA08	Literature in Languages other than English	4	0	20	80	4
10	BCS2B02	OOP Concepts and Data Structures Using C++	2	0	20	80	3
11	BCS2B03	Programming Laboratory I: Programming in C & Data	0	2	20	80	2
		Structures Using C++					
12	XXXXC02	Complementary Mathematics II	4	0	20	80	3
13	XXXXC02	Optional Complementary II*	4	0	20	80	3
		Total	2	5	7	00	22

SEMESTER III

Course	Course		Hour		Ma		
No.	Code	Title	Т	P	Int.	Int. Ext.	Credit
14	XXXXA11	Numerical Skill	4	0	20	80	4
15	XXXXA12	General Informatics	4	0	20	80	4
16	BCS3B04	Fundamentals of Digital Electronics	2	1	20	80	3
17	BCS3B05	Visual Programming Using VB.NET	8.1	3	20	80	3
18	XXXXC02	Complemental Mathemetics	5	0	20	80	3
19	XXXXC02	Optional Complementary III*	5	0	20	80	3
		Total	2	25	6	00	20

SEMESTER IV

Course	Course	TIAL -	Hours		Marks		C 1'4
No.		T	P	Int.	Ext.	Credit	
20	XXXXA13	Entrepreneurship	4	0	20	80	4
21	XXXXA14	Basics of Audio & Video Media	4	0	20	80	4
22	BCS4B06	Fundamentals of Database Management System and RDBMS	3	2	20	80	3
23	BCS4B07	Programming Laboratory II: VB.NET & RDBMS	0	2	20	80	2
24	XXXXC03	Complementary Mathematics IV	5	0	20	80	3
25	XXXXC03	Optional Complementary IV*	_5	0	20	80	3
		Total	2	5	6	00	19

SEMESTER V

Course	Course	Title	Hours		Marks		Credit
No.	Code	Title	T	P	Int.	Ext.	Crean
26	BCS5B08	Computer Organization and Architecture	5	0	20	80	4
27	BCS5B09	Java Programming	3	3	20	80	4
28	BCS5B10	Web Programming Using PHP	3	3	20	80	4
29	BCS5B11	Principles of Software Engineering	4	0	20	80	4
30	XXX5DXX	Open Course	2	0	10	40	2
		Project Work	0	2			
		Total	2	5	4	50	18

SEMESTER VI

Course	Course	T:41.	Hours		Marks		Cus did
No.	Code	Title	T	P	Int.	Ext.	Credit
31	BCS6B12	Android Programming	4	1	20	80	4
32	BCS6B13	Fundamentals of Operating Systems	4	1	20	80	4
33	BCS6B14	Computer Networks	5	0	20	80	4
34	BCS6B15	Programming Laboratory III: Java & PHP Programming	0	2	20	80	2
35	BCS6B16	Programming Laboratory IV: Android & Linux shell Programming	0	2	20	80	2
36	BCS6B17X	Elective Course	4	0	20	80	3
37	BCS6B18	Project Works 177	0	2	10	40	2
Total			2	5	6	50	21



Course No.	Course Code	Title
		Introduction to Computers & Office Automation
31	BCS5D02	Web Designing.
31	BCS5D03	Introduction to Problem Solving and C Programming

LIST OF ELECTIVE COURSES

Course No.	Course Code	Title
37	BCS6B17a	Computer Graphics
37	BCS6B17b	System Software
37	BCS6B17c	Microprocessor & Applications



