



Vishwavidyanilaya Karyasoudha  
Crawford Hall, Mysuru- 570 005  
Dated: 15.06.2018

No.AC.2(S)/31/18-19

**NOTIFICATION**

**Sub:** Revision of syllabus for Computer Science (UG) as per CBCS pattern from the academic year 2018-19.

- Ref:** 1. Decision of Board of Studies in Computer Science (UG) meeting held on 28.02.2018.  
2. Decision of the Faculty of Science & Technology Meeting held on 21.04.2018.  
3. Decision of the Deans Committee meeting held on 22.05.2018.

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The Board of Studies in Computer Science (UG) which met on 28.02.2018 has recommended to revise the syllabus for B.Sc. Computer Science as per CBCS pattern from the academic year 2018-19.

The Faculty of Science and Technology and the Deans committee meetings held on 21-04-2018 and 22-05-2018 respectively have approved the above said proposal with pending ratification of Academic Council and the same is hereby notified.

The CBCS syllabus of B.Sc. Computer Science course is annexed. The contents may be downloaded from the University Website i.e., [www.uni-mysore.ac.in](http://www.uni-mysore.ac.in).

**Draft approved by the Registrar**

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15/6  
**Deputy Registrar(Academic)**  
*[Handwritten initials]*

**To:**

1. The Registrar (Evaluation), University of Mysore, Mysore.
2. The Dean, Faculty of Science & Technology, DOS in Physics, Manasagangotri, Mysore.
3. The Chairperson, BOS in Computer Science, DOS in Computer Science, Manasagangotri, Mysore.
4. The Chairperson, Department of Studies in Computer Science, Manasagangotri, Mysore.
5. The Director, College Development Council, Moulya Bhavan, Manasagangotri, Mysore.
6. The Principals of the Affiliated Colleges where UG Program is running in Science stream.
7. The Deputy/Assistant Registrar/Superintendent, AB and EB, UOM, Mysore.
8. The P.A. to the Vice-Chancellor/Registrar/Registrar (Evaluation), UOM, Mysore.
9. Office file.

## **Open Elective 1: Web Design (HTML)**

**2 Hrs/Week**

**Max Hours:30**

Unit I:

The World Wide Web (WWW) and history of HTML, Hypertext and Hypertext Markup Language, Why HTML, Prerequisites.

Dividing the document into 2 parts, Headers tags, Body tags, Delimiters, Tags, Elements, Attributes, Elements of an HTML Document , Text Elements, Tag Elements, Special Character elements, HTML Comments.

Header tags, Body tags, Heading tags, Inserting horizontal lines, Paragraphs, Breaks, Titles, Lists: Numbered List, Non-Numbered list, Definition list, Nested list, Marquee.

Unit II:

Logical styles (source code, text enhancements, variables), Physical Styles (Bold, Italic, underlined, crossed)

Image format (quality, size, type ...), Importing images (scanners), Tags used to insert images, Frames, Hyperlinks.

Unit III Tags used in table definition, Tags used for border thickness, Tags used for cell spacing, Tags used for table size, Dividing table with lines, Dividing lines with cells. Cell types: Titles cell, Data cell.

### **Reference :**

1. Robert W. Sebesta: Programming the World Wide Web, 4th Edition, Pearson Education, 2008
2. Web programming: Srikanth S, Skyward Publishers.

## **Open Elective 2: C Programming Language**

**2 Hrs/Week Max Hours:30**

Unit I:

Introduction, System software, Application software. Program Translators – Assembler, Interpreter and Compiler. Programming languages -Machine Level language, Assembly level language, High level language, Compare and contrast – Advantages and disadvantages.

Algorithm- Features, Advantages & disadvantages of algorithm, Flowchart – Symbols used in a flowchart, Steps involved in developing a flowchart with suitable examples, Advantages & disadvantages of flowchart.

Unit II:

Introduction to C programming, features of C language, applications of C, advantages of C. Structure of C program and execution of C program.

C character set, C tokens: identifiers, keywords, variables, constants and operators . Types of constants- integer constants, float constants, single character constants and string constants Basic data types – int, char, float and double. Qualifiers – short, long, signed and unsigned. Declaration of variables, Assigning values to variables, Defining symbolic constants, Data type conversion: implicit and explicit. Operators-Arithmetic, Assignment, Relational, Logical, Conditional, Bitwise and Special operators. Expressions - Arithmetic expressions, Relational expressions, Logical expressions.

Formatted and Unformatted Input/output functions. Format specifier for integers, floating point numbers, characters and strings. Escape sequences.

Types of controls structures-Conditional Statements-Simple if, if-else, nested if, else-if ladder, switch statements. Looping- while, do-while, for loop.

### **Reference Books:**

1. Problem Solving with C -PHI(EEE). By - M.T.Somashekara.
2. Programming with C (Second edition) Byron S Gottfried , Schaum's Outlines (TMH)
3. Programming with C by K.R. Venugopal, Sudeep R Prasad TMH Outlines Series
4. Programming in ANSI C by Ram Kumar, Rakesh agrawal, TMH
5. Let us C by Yashwant Kanetkar, BPB