SRI RAMAKRISHNA DEGREE (AUTONOMOUS) COLLEGE, NANDYAL

Minutes of the meeting of the Board of Studies in **Sri Ramakrishna Degree College, Nandyal** held at Department of Computer Science at 10.00 A.M. on 11-03-2018.

Sl.No	Name	Designation	Signature
1.	Dr.U.V.S.Kumar	Chairman	
2.	Prof B.Satyanarayana	University Nominee	
3.	Sri S.Guru Raja Rao	Outside Expert	Not Attended
4.	Sri K.Maheswara Reddy	Outside Expert	
5.	Sri S.Raja Sekhar	Industry Expert	
6.	Sri A.D.Sivaram Kumar	ALUMNI Representative	
7.	Sri S.Venkata Rao	Member	
8.	Sri D. Chandrasekhar Reddy	Member	
9.	Sri K. Sampath Kumar	Member	
10.	Sri B.Rama Krishna	Member	
11.	Smt.B.Pratyusha	Member	
12.	Sri G.Bharadwaja Sarma	Member	
13.	Sri V.Sudhakar	Member	
14.	Sri K.Jithendra	Member	
15.	Sri K.B.Rama Maddileti	Member	
16.	Smt. P.Rajya Lakshmi	Member	
17.	Kum.D.Asha	Member	
18.	Kum A.Jyothi	Member	
19.	V.Sandhya	Student Representative	

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RESOLUTION NO. 1:

It is resolved that students admitted into B.Sc. MPC's, MSC's and MEC's shall henceforth have semester system with Electives and the scheme of instruction and evaluation.

For the First year B.Sc. shall be as under.

Sem. No.	Title of the Paper	Hours per week	Marks for Internal Assessment	Marks for External Assessment
1	Computer Fundamentals & Photoshop	4+2	40	60
II	Programming in C	4+2	40	60

Outcome :

Upon successful completion of the I semester a student obtained the basic knowledge on computers and Photoshop's and to understand how Photoshop will help you create your own successful images.

Outcome :

Upon successful completion of the II semester a student will learn:

- The working of a digital computer
- Analyzing the problem and developing an algorithm to solve the problem
- Provides solution to a problem
- Design, develop and test programs written in 'C'.

BOS chairman

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531-B

B.Sc I YEAR II SEMESTER

Paper-II : PROGRAMMING IN C

UNIT I

Introduction to Algorithms and Programming Languages: Algorithm – Key features of Algorithms – Some more Algorithms – Flow Charts – Pseudo code – Programming Languages – Generation of Programming Languages – Structured Programming Language- Design and Implementation of Correct, Efficient and Maintainable Programs.

Introduction to C: Introduction – Structure of C Program – Writing the first C Program – File used in C Program – Compiling and Executing C Programs – Using Comments – Keywords – Identifiers – Basic Data Types in C – Variables – Constants – I/O Statements in C- Operators in C- Programming Examples – Type Conversion and Type Casting

UNIT II

Decision Control and Looping Statements: Introduction to Decision Control Statements – Conditional Branching Statements – Iterative Statements – Nested Loops – Break and Continue Statement – Goto Statement

Functions: Introduction – using functions – Function declaration/ prototype – Function definition – function call – return statement – Passing parameters – Scope of variables – Storage Classes – Recursive functions – Type of recursion – Towers of Hanoi – Recursion vs Iteration

UNIT III

Arrays: Introduction – Declaration of Arrays – Accessing elements of the Array – Storing Values in Array – Calculating the length of the Array – Operations on Array – one dimensional array for inter-function communication – Two dimensional Arrays –Operations on Two Dimensional Arrays - Two Dimensional Arrays for inter-function communication – Multidimensional Arrays – Sparse Matrices

Strings: Introduction –Suppressive Input – String Taxonomy – String Operations – Miscellaneous String and Character functions

UNIT IV

Pointers: Understanding Computer Memory – Introduction to Pointers – declaring Pointer Variables – Pointer Expressions and Pointer Arithmetic – Null Pointers – Generic Pointers - Passing Arguments to Functions using Pointer – Pointer and Arrays – Passing Array to Function – Difference between Array Name and Pointer – Pointers and Strings – Array of pointers – Pointer and 2D Arrays – Pointer and 3D Arrays – Function Pointers – Array 0f Function Pointer – Pointers to Pointers – Memory Allocation in C Programs – Memory Usage – Dynamic Memory Allocation – Drawbacks of Pointers

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Structure, Union, and Enumerated Data Types: Introduction – Nested Structures – Arrays of Structures – Structures and Functions – Self referential Structures – Union – Arrays of Unions Variables – Unions inside Structures – Enumerated Data Types

UNIT V

Files: Introduction to Files – Using Files in C – Reading Data from Files – Writing Data from Files – Detecting the End-of-file – Error Handling during File Operations – Accepting Command Line Arguments – Functions for Selecting a Record Randomly - Remove() – Renaming a File – Creating a Temporary File

Pre-Processor Directives and Command Line Arguments

REFERENCE BOOKS

1. Introduction to C programming by REEMA THAREJA from OXFORD UNIVERSITY PRESS
2. E Balagurusamy: —COMPUTING FUNDAMENTALS & C PROGRAMMING – Tata McGraw-Hill, Second Reprint 2008, ISBN 978-0-07-066909-3.
3. Ashok N Kamthane: Programming with ANSI and Turbo C, Pearson Edition Publ, 2002.
4. Henry Mullish & Huubert L.Cooper: The Spirit of C An Introduction to modern Programming, Jaico Pub. House,1996.

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531-B

I B.Sc(Cs)- II SEMESTER

Paper Title: Programming in C Language

Time: 3Hrs **Max.Marks:60**

SECTION-A

Write any FOUR Questions. Each Question carries 5 Marks **4*5=20Marks**

1. What is Header Files in C?
2. Write a short notes on Commenting Lines in C Language
3. Define Identifier and Keywords.
4. Define Operator Explain Airthmetic Operators?
5. Define Array. What are the advantages and Disadvantages of Arrays?
6. Explain about Function Calling with example
7. What is a Pointer in C Language.
8. Write a short notes on Unions in C Language.

SECTION-B

Write any FOUR Questions. Each Question carries 10 Marks **4*10=40Marks**

9. Explain the Structure of C Porgram with an Example?
10. Define Constant. Explain different types of Constants in C Language
11. What is meant by Loop.Explin While loop and do while loop with example
12. Explina Conditional Statements with a Example
13. What is meant by Function Explain differnt types of Functions
14. Define String Explain String handling functions with an Example
15. Define Structure and how to acces structure variable with an example
16. What is storage class Explain differnt types of Storage Classes

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