



GIRRAJ GOVT COLLEGE (A), NIZAMABAD
(COLLEGE WITH POTENTIAL FOR EXCELLENCE)

B.O.S-2019-20

DEPARTMENT OF COMPUTER APPLICATION

PROCEEDINGS OF THE PRINCIPAL, GIRRAJ GOVT.COLLEGE(A)

Present: Sri K.DUBBA RAJAM, M.sc

Lr. No. / GGC-Nzb. / Comp. Appl./ BOS - 19-20 / dated -09-2019
Sub.:constitution Board of studies members for the Dept.of Computer
Application- Girraj Govt. College (A), Nizamabad.

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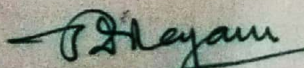
ORDERS:

The following persons from Telangana University, Girraj govt. College are included as members for the Board of Studies in the department of computer Application, Girraj Govt College(A), Nizamabad .The constitution of the BOS Members from this academic year i.e. 2019-20 .

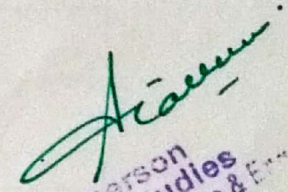
1. Dr.Ch.Aarathi Associate.Prof.Comp.Science Dept &
Chair person B.O.S., (University Nominee)
Telangana University,
Dichpally, Nizamabad.
2. Sri N.Ramesh Goud Asst.Prof. in History
Chairman B.O.S., Comp.Appl. Department B.O.S.-B.A.(CA)
Girraj Govt.College(A), Nizamabad.
3. Sri N.Raja Asst.Prof. in Physics && Executive Member & Chairman
,B.O.S. B.sc(CS), Girraj Govt.College(A), Nizamabad.
4. Sri V.Subhash Lecturer & HOD of Comp.Sci
Goutami Degree & PG College, Nizamabad.
5. All staff members
Of the Computer Appl..Dept

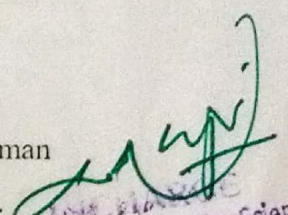
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1. Chairperson BOS, TU, NZB
2. Chairperson BOS, GGC, NZB
3. Individual
4. All Members, Dept .of.Comp.Sci


PRINCIPAL

Girraj Govt. College (Autonomous)
Nizamabad


Chairperson
Board of Studies
Dept. of Computer Science & Engg.
TELANGANA UNIVERSITY
NIZAMABAD-503 002


Department of Computer Science
GIRRAJ GOVT. COLLEGE
NIZAMABAD.

B.A. /B.Sc. (Computer Applications)

CBCS Pattern in Semester System - 2019

Semester -I			
Course Title	H/Week		Credits
	Th	Pr	
Programming in C	4	3	4+1 = 5
Semester -II			
Programming in C++	4	3	4+1 = 5
Semester -III			
Relational Data Base Management Systems	4	3	4+1 = 5
Semester -IV			
Multi Media Systems	4	3	4+1 = 5
Semester -V			
Mobile Applications	4	3	4+1 = 5
Semester -VI			
Web Technologies	4	3	4+1 = 5

AECC

Semester -I	Hours/Week	Credits
Fundamentals of Computer	Th 2	2
Semester -II	Hour/Week	
Office Automation	2	2
SEC		
Semester -III		
Python -I (Sec -I)	2	2
Ci Lab -I (Sec -II)	2	2
Semester -IV		
Python -II (Sec -III)	2	2
Ci Lab -II (Sec -IV)	2	2
Generic Elective (GE)		
Semester -IV		
Information Technologies	4	4
Project/Optional		
Information Security and	Thr pr	3+1=4

Chairperson
 of Studies & Engg
 UNIVERSITY
 322

GIRRAJ GOVERNMENT DEGREE COLLEGE(A), NIZAMABAD
DEPARTMENT OF COMPUTER APPLICATIONS
B.A.COMPUTERS I YEAR SEMISTER I

Core paper – I Programming in C

Unit – I

Chapter - I

Computer Fundamentals: Introduction of Computers, Classification of Computers, Anatomy of a Computer, Memory Hierarchy, Introduction to OS, Operational Overview of a CPU.

Chapter – II

Program Fundamentals: Generation and Classification of Programming Languages, Compiling, Interpreting, Loading, Linking of a Program, Developing Program, Software Development.
Algorithms: Definitions, Different Ways of Stating Algorithms (Step-form, Pseudo-code, Flowchart),

Unit – II

Chapter - III

Basics of C: Overview of C, Developing Programs in C, Parts of Simple C Program, Structure of a C Program, Comments, Program Statements, C Tokens, Keywords, Identifiers, Data Types, Variables Constants, Operators and Expressions,

Chapter – IV

Input-Output: Non-formatted and Formatted Input and Output Functions, Escape Sequences,
Control Statements: Selection Statements – if, if-else, nested if, nested if-else, comma operator, conditional operator, switch, Iterative Statements–while, for, do-while; Special Control Statement–goto, break, continue, return, exit.

Unit – III

Chapter - V

Arrays and Strings: One and Two Dimensional Arrays, Character Arrays string Manipulations functions

Chapter - VI

Functions: Concept of Function, Using Functions, Call-by-Value Vs Call-by-reference, Passing Arrays to Functions, Scope of Variables, Storage Classes.

Unit – IV

Chapter - VII

Pointers: Introduction, Address of Operator (&), Pointer, Uses of Pointers, Arrays and Pointers, Pointers and Strings, Dynamic Memory Allocation.

Chapter - VIII

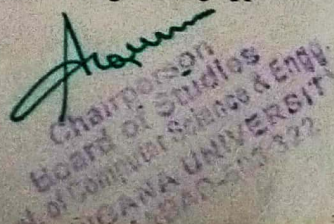
User-Defined Data Types: Declaring a Structure (Union) and its members, Initialization Structure (Union), Accessing members of a Structure (Union), Structures verses Unions

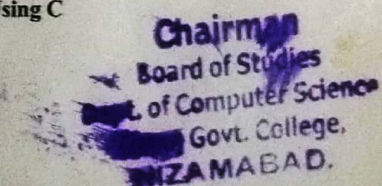
Text Pradip Dey, Manas Ghosh, Computer Fundamentals and Programming in C (2e)

References

1. Ivor Horton, **Beginning C**
2. Herbert Schildt, **The Complete Reference C**
3. Paul Deitel, Harvey Deitel, **C How To Program**
4. Byron S. Gottfried, **Theory and Problems of Programming with C**
5. Brian W. Kernighan, Dennis M. Ritchie, **The C Programming Language**
6. B. A. Forouzan, R. F. Gilberg, **A Structured Programming Approach Using C**


Incharge, B.A. Computer Applications
Girraj Government College,
NIZAMABAD.


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Board of Studies
Govt. College,
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**GIRRAJ GOVERNMENT DEGREE COLLEGE(A),NIZAMABAD
DEPARTMENT OF COMPUTER APPLICATIONS
B.A.COMPUTERS I YEAR SEMISTER II**

Programming in C++

Unit I

Chapter - I

Introduction to C++: Applications, Basic Structure of C++ Program, differences between c & C++, benefits of oops languages and oops applications.

Chapter - II

Tokens, Data Types, Operators, Type Casting.

Unit II:

Chapter - III

Control Structures: Conditional statements: simple if, if else, nested if Select case: if else ladder, switch. Looping: for, while, do-while Jumping: break and continue.

Chapter - IV

Arrays, : single dimension, double dimension, advantages of arrays, String manipulating functions.

Unit III:

Chapter - V

Introduction to class, defining an instance, member functions, a class with scope resolution, inline function Functions: Introduction, Prototype, Passing Data by Value, Reference Variables, Using Reference Variables as Parameters, Inline Functions, Default Arguments, Overloading Functions.

Chapter - VI

Inheritance: Introduction, types of inheritance, access specifiers. (Private, Public, Protected).

Unit IV|:

Chapter - VII

Introduction to polymorphism, function overloading, unary and binary operator overloading.

Chapter - VIII

Exceptions: Introduction, Throwing an Exception, catch,try exceptions,keywords.

Template: function Template,class Template:

Text Tony Gaddis, Starting out with C++: from control structures through objects (7e)

References

B. Lippman, C++ Primer
Bruce Eckel, Thinking in C++
K.R. Venugopal, Mastering C++
Herbert Schildt, C++: The Complete Reference
Bjarne Stroustrup, The C++ Programming Language
Sourav Sahay, Object Oriented Programming with C++

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