GIRRAJ GOVERNMENT COLLEGE (A),
NIZAMABAD
(2016 – 17)

B.A.DEPARTMENT OF
COMPUTER
APPLICATIONS

B. A. I YEAR, II YEAR,
& III YEAR

SYLLABUS, MODELPAPERS
AND PRACTICAL
QUESTION PAPERS.

PROCEEDINGS OF THE PRINCIPAL, GIRRAJ GOVT. COLLEGE (A), NIZAMABAD
Re-Accredited by NAAC with "B" (College with Potential for Excellence)
Present: Prof Dr. Rajendera Prasad, Ph.D.

Re.No. _____ /GGC-.NZB/B.A.COMP. APPLI-BOS-2015-16/ Date: _____

Sub: Re-Constitution of Board of studies Members for the year 2015-16 in the Dept. of Computer Application Girraj Govt. College (A), Nizamabad -Orders issued.
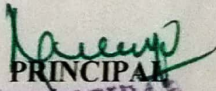
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ORDERS:

A Sanction is accorded for the Re-Constitution of studies members for Dept. of Computer Application With the following members for the Period 2015-16

1. **Smt. Dr. M.B.Brahmbarambika**
   Asst. Prof. Comp. Science Dept &
   Chairman B.O.S. Telangana University
   Dichpally Nizamabad.

   Chairperson B.O.S.
   University Nominee

2. **Sri Y.Venu Prasad**
   Head Dept. Comp App &
   Lecturer in Economics,
   GGC (A), Nizamabad.

   Chairman Board of Studies

4. **Sri.K.Dubbarajam**
   Lecturer in Physics &
   HOD, Computer Science,
   GGC(A), Nizamabad

   Members

5. **K. Subhash**
   HOD, Dept. of Computer Science,
   Gouthami Degree College,
   Nizamabad.

   Member & Subject Expert

6. **A. Ashwini,**
   Lecturer in Computer Application,
   Pragathi Degree College,
   Nizamabad

   Member & Subject Expert

The term of office of the Board of studies in Computer Applications shall be for the period of 2(Two) years with effect from date of issue of this order

PRINCIPAL
PRINCIPAL
Girraj Government College
Dubba, Nizamabad,

Copy to:
All the members B.O.S.,
1) Chairperson BOS, Dept of Computer Science, T.U,
2) Chairperson BOS, Dept of Computer Science, G.G.C,Nizamabad
3) Principal University College, T.U. Nizamabad
4) Principal Gouthami Degree College, Nizamabad
5) Principal Pragathi Degree College, Nizamabad
6) UGC Coordinator, Girraj Govt. College, Nizamabad

GIRRAJ GOVERNMENT COLLEGE, (AUTONOMUS), NIZAMABAD
Choice Based Credit System (W.E.F 2016-17)

Subject: B. A. Computers Applications   **Total Credits: 34**

SEM	COURSE PAPER	CODE LEVEL	MODULE TITLE SUBJECTS	HOURS PER WEEK	CREDITS
I	1	Core	Fundamentals of Information Technology (F.I.T)	06	04
II	2	Core	C Language	06	04
III	3	Core	Database Management System (D.B.M.S)	06	04
IV	4	Core	C++ Programming Language	06	04
		Project work at the end of IV Semester on any of the above Courses			01
V	5	Core	Java Programming	05	04
	6	Elective	1.Web- Technology		
			2. Visual Basics	05	03
VI	7	Core	Java Programming	05	04
	8	Elective	1.Web-Technology		
			2.Visual Basics	05	03
		Project work at the end of VI Semester on any of the above Courses			01
		IV Sem Inter Disciplinary Elective	Ms-office and Internet Concepts	30 in a Semester	02
			Total		34

Chairman
Board of Studies
Dept. of Computer Science
Telangana University,
NIZAMABAD.

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

Unit – I

SYLLABUS

INTRODUCTION:

Introduction of Database System, Features of database System, Data Abstraction, Database abstraction Model, Data encapsulation, Database Independence, Data definition Language (DDL), Data Manipulation Language (DML), Database Administration (DBA), Functions of DBA.

Unit – II

Data, Data Dictionary, metadata, Database instance Database schema, Database computers, Architecture of a Database, Types of Data base.

Unit – III

E-R Model, Entity and Entity Sets, Relationship, Mapping Constraints, One to one, one to many, many to one, many to many, Primary Keys, E-R Diagrams.

Unit – IV

RELATIONAL MODEL: Relational Algebra: Structure, Query Language

Unit – V

Relational Database Design: Decomposition, Desirable properties of Decomposition, Normalization, INF, 2NF, 3NF and BCNF.

PROGRAMMING LAB-II (DBMS)

1. Creation of Database
2. Simple Condition Query Creation using SQL, Plus
3. Complex Condition Query Creation using SQL Plus
4. Insertion, Deletion and Modification of Database
5. Arranging tables in order.

Reference/text books

Database System Concepts2006

H.F Korth, A Silbersgatz and S.Sudharshan

Mc Grawhill International 1997.

P.Mohan(Himalaya Pub2006)

B.P.B Pub 1993

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SYLLABUS

UNIT – 1

Introduction to object oriented programming, what is C++, Variables, constants, data types, operators, control statements.

UNIT II

Classes and objects, functions, object life times and access specifies, Inheritance and classification hierarchies.

UNIT III

Introduction to polymorphism, operator overloading, Polymorphism by parameter.

UNIT IV

Method Polymorphism, run-time Polymorphism, Classes, Multiple inheritances.

UNIT V

Constructions, Types of Constructions, destructors Constructor over loading.

Reference/text books:

David parsons
Object oriented programming with C++
BPB publications 1995
Mc Grawhill International 1997

Programming Lab

1. Implementation of Classes and objects
2. Implementation of the concept encapsulation
3. Implementation of the concept inheritance
4. Implementation of the concept polymorphism
5. Implementation of the concept operator over loading
6. Implementation of the concept multiple inheritance

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Girraj Government College,
NIZAMABAD.

PART- A   Marks: 5x4=20

I Answer any FIVE of the following questions.

Q. 1 & 2	from	.Unit-I	4 marks
Q. 3 & 4	from	.Unit-II	4 marks
Q. 5 & 6	from	.Unit-III	4 marks
Q. 7 & 8	from	.Unit-IV	4 marks
Q. 9 & 10	from	.Unit-IV	4 marks

PART-B   Marks: 5x10=50

II Answer any FIVE of the following questions.

Q. 11 Unit-III.
Q. 12 Unit-IV
Q. 13 Unit-IV
Q. 14 Unit-V
Q. 15 Unit-V

IV.   SECTION-C   Marks:5x8=40   Note: i) Answer all the Questions.
   ii) Each Answer should not exceed three pages
        iiI) All question carry equal marks
Q. 16. a) or b) from unit- I (with internal choice)
Q. 17 a) or b) from unit- II (with internal choice)
Q. 18   a) or b) from unit- III (with internal choice)
Q. 19   a) or b) from unit- IV (with internal choice)
Q. 20   a) or b) from unit- V (with internal choice)

Internal Examination-   Max.Marks:30
- Assignment: 05
- Student Seminar   05
- Written test   20 (Internal assessment with best of two)
                Total   30

Chairperson
Board of Studies
Dept. of Computer Science & Engg.
TELANGANA UNIVERSITY
NIZAMABAD-503 322