

GIRRAJ GOVT COLLEGE (A), NIZAMABAD

(COLLEGE WITH POTENTIAL FOR EXCELLENCE)



B.Sc.

DEPARTMENT OF COMPUTER SCIENCE

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

Present: Sri Dr. E.Laxminarayana

Lr. No. / GGC-Nzb. / Comp. Science & Page 1005 - 2021-2022 / Dated 20-11-2021

Sub.: constitution Board of studies members for the Dept.of Computer Science& Data Science- 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 science, Girraj Govt College(A), Nizamabad. The constitution of the BOS Members from this academic year i.e. 2021-22.

1.Sri Dr. Md.Atheeq Sultan Ghori

Asservof.Comp.Science Dept &

Chair person B.O.S., (University Nominee)

Telangana University, Dichpally, Nizamabad.

2 Sri , Dr. Rama

Asst. Prof. Comp. Science Dept

Kakatiya University , Warangal

Board of Studies
Dept. of Computer Science & En
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3. Sri N. Raja

Asst Professor of Physics &

Chairman B.O.S., Comp. Sci Department,

Girraj Govt.College(A), Nizamabad.

4. Sri Ch.Arjun

Asst. Professor of Physics &

chairman B.O.S .Data Science.

Girraj Govt.College(A), Nizamabad.

5. Sri T.Devanna

Asst Professor of History &

Chairman B.O.S.-B.A.(CA)

Girraj Govt.College(A), Nizamabad.

6... Sri V.Subhash

Lecturer & HOD of Comp.Sci

Goutami Degree College, Nizamabad.

7. Sri P. Anand Kumar

CEO Indur Solutions

SAP support & Services

Plotno: 104/141 , Vaishali Nagar, Madinaguda

Hyderabad..

8. All Faculty members of Computer Science

Copy to

1. Chairperson BOS, Telangana University, Nizamabad

2. Chairperson BOS, Girraj. Govt. College(A), Nizamabad.

3. Individual

4. All Members, Dept .of. Computer Science Applications Data Science

PRINCHIAL
Girraj Govt. College (Autonomous)

Principal
Girraj Govt. College (A)
Nizamabad

GIRRAJ GOVT.COLLEGE (A)

TELANGANA UNIVERSITY B.Sc. (Computer Science)

CBCS Pattern with Effect from the Academic Year 2019-2020

Structure of Curriculum

So actare of Curriculum			
Course Title	Hour	s/Week	Credits
C	Theory	Practical	
Semester –I			
Programming in C	4	3	4+1 = 5
Semester –II	•	3	471-3
Programming in C++	4	3	4+1 = 5
Semester –III	<u>'</u>	3	4+1-3
Data Structures using C++	4	2	4.1 6
Semester –IV	4	3	4+1 = 5
Data Base Management	4	2	4.4
Systems (DBMS)	"	3	4+1 = 5
Semester –V			
Programming in Java	4	3	1.1 - 5
Semester –VI		3	4+1 = 5
Web Technologies	4	3	4.1
8.00	7	3	4+1 = 5

	AECC	
	Hours/Week	Credits
Fundamentals of Computers	Theory 2	2
	SEC	L
Semester –III		
Communication Skills(or)	2	2
Professional Skills (Sec –I)	_	
Python –I (Sec –II)	2	2
Semester –IV		2
Leadership & Management	2	2
Skill (or) (Sec –III)	_	2
Universal Human Values		400
Python –II (Sec –IV)	2	2
Gener	ric Elective (GE)	
Information Technologies	4	4
Pro	ject/Optional	4
Semester –VI	•	
PHP with MY SQL	Theory Practical 3	3+1=4

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GIRRAJ GOVT.COLLEGE (A)

TELANGANA UNIVERSITY

B.Sc. (Computer Science)

CBCS Pattern with Effect from the Academic Year 2019-2020

Structure of Curriculum

Course Title	Hour	s/Week	Credits
	Theory	Practical	
Semester –I			
Programming in C	4	3	4+1 = 5
Semester –II			
Programming in C++	4	3	4+1 = 5
Semester –III		3	711 3
Data Structures using C++	4	3	4+1 = 5
Semester –IV		5	411-3
Data Base Management Systems (DBMS)	4	3	4+1 = 5
Semester –V			
Programming in Java	4	3	4+1 = 5
Semester –VI			T-11 J
Web Technologies	4	3	4+1 = 5

	AECC	
	Hours/Week	Credits
Fundamentals of Computers	Theory 2	
T	SEC	2
Semester –III	SEC	
Communication Skills(or) Professional Skills (Sec –I)	2	2
Python –I (Sec –II)	2	2
Semester –IV		2
Leadership & Management Skill (or) (Sec –III)	2	2
Universal Human Values		
Python –II (Sec –IV)	2	2
Gener	ic Elective (GE)	2
Information Technologies	4	4
Pro	ject/Optional	Т
Semester –VI		
PHP with MY SQL	Theory Practical 3	3+1=4

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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous) B.Sc. III Year V Semester Syllabus

Core-PAPER-V: Java Programming

(w.e.f from 2021-2022)

Max. Marks: 70(Theory)

Internal Assessment:30

neory 4Hrs/Week

4Credits

Theory Practical

3Hrs/Week

1Credit

UNIT-I

Chapter-I:

Java History, Basic concepts of object oriented programming, Java features, How java differs from C and C++, Java and Internet , Java and WWW,

Web browsers, Java Environment, Simple java program, Use of math functions, An application with two classes, Java program structure, Java Tokens, Java Statements, Implementation of Java Program, JVM, Command line arguments.

Chapter-II:

Constants, Variables, Datatypes, Declaration of variables, Giving values to variables, Scope of variables, Type casting, Operators of java: Arithmetic Expressions, Evaluation of Expression, precedence of Arithmetic Operators, Mathematical Functions.

UNIT-II

Chapter-I:

Decision making and branching:if-statement,if else,else if ladder,nested if switch,Loop:while,do-while,for,nested loops,Jumps in loops:break,continue,labeled loops.Classes,objects and methods:Designing a class,field declaration,method declaration,creating objects,Accessing class members,constructors:Default Constructor,Parameterized constructors,Method Overloading,Static Members,Nesting Methods.

Chapter-II

Inheritance:Extending a class,Overriding Method,final variables and methods,Final Classes,Finalizer Methods,Abstract Methods and Classes.

UNIT III

Chapter I

Arrays:One Dimensional Arrays,Two Dimentional Arrays,Strings,Vectors,Wrapper Classes,Enumerated Types.Interfaces:Designing interfaces,Extending Interfaces,implementing Interfaces,Accessing interface variables

Chapter-II:

Packages: Java API Packages, Using System Packages, Naming Conventions, Creating Packages, Accessing a Package, Using Package.

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UNIT IV

Chapter I

Multithreading Programming: Creating Threads, Extending the thread class, Stopping and blocking a thread, Life Cycle of a thread, Using Thread Methods, Thread Exception, Thread Priority, Synchronization, Implementing the Runnable Interface.

Chapter II

Managing Errors and Exceptions: Types of Errors, Exceptions, Syntax of Exception Handing Code, Multiple Catch Statements. Applet Programming: How applets Differ from applications, Preparing to write applets, Building applet Code, Applet Life Cycle, Creating an Executable Applet, Designing a web page, Applet Tag, Adding Applet to HTML file, Running the Applet, More about Applet Tab, Passing Parameters to Applets, Aligning the Display, More about HTML tag, Displaying Numeric values, Getting I/O from User.

Textbooks: Sachin Malhotra, Saurabh Choudhary, Programming in Java (2e)

Bruce Eckel, Thinking in Java (4e)

References: Herbert Schildt, Java: The Complete Reference (9e)

Y. Daniel Liang, Introduction to Java Programming (10e) Paul Deitel, Harvey Deitel, Java: How To Program (10e)

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GIRRAJ GOVERNMENT COLLEGE (A), NIZAMABAD

DEPARTMENT OF COMPUTER SCIENCE

BSC COMPUTER SCIENCE

SEMESTER-V

Paper-V: Java Programming CBCS (With effect from 2021-2022)

Time: 3:00 Hrs

External Examination

Max.Marks:-70

PART-A

Marks: 6x5=30

I. Answer any Six of the following Questions.

Q. 1 & 2	from	.Unit-I
0.3 & 4	from	.Unit-II
0.5 & 6	from	.Unit-III
Q. 7 & 8	from	.Unit-IV

PART-B

Marks: 4x10=40

II Answer All the Questions.

Q. 9 (a or b) from unit- I

Q. 10 (a or b) from unit- II

Q. 11 (a or b) from unit- III

Q. 12 (a or b) from unit- IV

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GIRRAJ GOVERNMENT COLLEGE (A), NIZAMABAD DEPARTMENT OF COMPUTERS SCIENCE

B.Sc. III Year VI Semester

Core-PAPER-VI-Web Technologies

CBCS (With effect from 2021-2022)

Internal Examination

Max.Marks:25

I. Multiple choice questions

10x1=10

II. Fill in the Blanks

Time: 1Hr

15x1=15

III. Assignment:

Marks: 05

DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous) B.Sc. III Year VI Semester Syllabus Core-PAPER-VI-Web Technologies

(w.e.f from 2021-2022)

Max. Marks: 70(Theory)

Internal Assessment: 30

4Hrs/Week

4Credits 3Hrs/Week 1Credit

Theory

Practical

Unit - I

Chapter-I:

HTML Basics:

Introduction to HTML and XHTML, Basic structure, , Elements and Attributes HTML, Text Formatting tags, Types of tags, Lists, Navigation: Basic Links, Creating Links with the <a>

Images tags and attributes: Adding Images Using the Element, Using Images as Links Image Maps, Choosing the Right Image Format, Adding Flash, Video and Audio to your web

Chapter-II:

Tables: Introducing Tables, Nested Tables. Forms: Introducing Forms, Form Controls

Frames: Introducing Frameset, <frame> Element, Creating Links between Frames, Setting a Default Target Frame Using

Sbase> Element, Nested Framesets, Inline or Floating Frames with

Unit – II Chapter-I:

Introduction to DHTML:

Cascading Style Sheets: Introducing CSS, Types of CSS...

CSS Properties: Controlling Text, Text Formatting, Selectors (Class and Id), Length, .

More Cascading Style Sheets: Embedded style sheet, Inline Style sheet, External style sheet.

Chapter-II:

Introducing the Box Model.

Events in DHTML: Mouse Events and keyboard handling in DHTML

Unit – III Chapter-I:

Introduction To JavaScript: Advantages of JavaScript, How to Add Script to Your Pages, basic structure of JavaScript, Variables, Operators,

Chapter-II:

Control Statements: conditional statements, Looping statements, Arrays, Functions.

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Unit - IV Chapter-I:

Built- In Objects: String Objects, Math Objects, Date and Time objects, Document Object Model (HTMLDOM), Form Validations. Exceptional Handling in JavaScript: try, catch, throw and final statements.

Chapter-II

Introduction to XML: Advantages of XML, basic structure of xml. Document Type Definition (DTD): Introduction to Internal and external DTDs.

Text:

Jon Duckett, Beginning HTML, XTML, CSS and JavaScript

References

Chris Bates, Web Programming M. Srinivasan, Web Technology: Theory and Practice Achyut S. Godbole, Atul Kahate,

Web Technologies

Kogent Learning Solutions Inc, Web Technologies Black Book Ralph Moseley and M. T. Savaliya, Developing Web Applications

P.J. Deitel & H.M. Deitel, Internet and World Wide Web How to program

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GIRRAJ GOVERNMENT COLLEGE (A), NIZAMABAD DEPARTMENT OF COMPUTER SCIENCE BSC COMPUTER SCIENCE SEMESTER-V

Core-PAPER-V: Java Programming

CBCS (With effect from 2021-2022)

Time: 1Hr

Internal Examination

Max.Marks:30

I. Multiple choice questions

10x1=10

II. Fill in the Blanks

15x1=15

III. Assignment:

Marks: 05

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GIRRAJ GOVERNMENT COLLEGE (A), NIZAMABAD

DEPARTMENT OF COMPUTER SCIENCE

BSC COMPUTER SCIENCE SEMESTER-VI

Paper-VI: Web Technologies CBCS (With effect from 2021-2022)

Time: 3:00 Hrs

External Examination

Max.Marks:-70

PART-A

Marks: 6x5=30

I. Answer any Six of the following Questions.

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

PART-B

Marks: 4x10=40

II Answer All the Questions.

Q. 9 (a or b) from unit- I

Q. 10 (a or b) from unit-II

Q. 11 (a or b) from unit-III

Q. 12 (a or b) from unit- IV

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DEPARTMENT OF COMPUTERSCIENCE

Girraj Govt College(Autonomous) **B.Sc.III Year VI Semester Syllabus** PHP with MY SQL

(PROJECT/OPTIONAL)

Theory Practical

3 Hours/Week 3 Credit 1 Credit 3 Hours/Week

Internal marks = 15 External Marks = 60

Introducing PHP - What is PHP? Why use PHP? Evolution of PHP, Installing PHP, Other ways to run PHP, Creating your first script. PHP Language Basics - Using variables, Understanding Data Types, Operators and Expressions, Constants. Decisions and Loops -Making Decisions, Doing Repetitive Tasks with Looping, Mixing Decisions and Looping with HTML. Strings - Creating and Accessing Strings, Searching Strings, Replacing Text with Strings, Dealing with Upper and Lowercase, Formatting Strings. Arrays - Creating Arrays, Accessing Array Elements, Looping through Arrays with for-each, Creating Function, Reading Data in Web pages: setting up web pages to communicate with PHP, Handling Text Fields, Text Areas, Checkboxes, Radio Buttons, List Boxes, Password Controls, Image Maps, File Uploads, Buttons, and PHP Browser.

Object oriented programming: creating Classes and objects, setting access to properties and methods, constructors, destructors, Inheritance, overriding and overloading methods, auto loading classes. Advanced OOP: Static members and inheritance, Abstract classes, Interfaces, object iteration, comparing objects, class constants, final keyword, reflection. File Handling: fopen, feof, fgets, closing a file, fgetc, file_get_contents, reading a file into an array with file, file_exists, filesize, fread, fscanf, parse_ini_file, stat, fseek, copy, unlink, fwrite, reading and writingbinary files, appending a file, file_put_contents, locking files

Unit - III

Introducing Databases and SQL - Deciding How to Store Data, Understanding Relational Databases, Setting Up MySQL, A Quick Play with MySQL, Connecting MySQL from PHP. Retrieving Data from MySQL with PHP, Retrieving Data with SELECT, Creating a Member Record Viewer. Manipulating MySQL Data with PHP – Inserting, Updating, and Deleting Records, Building a Member Registration Application. Sessions, Cookies and FTP.

Text Books:

- 1. Steven Holzner, "PHP: The Complete Reference Paperback", McGraw Hill Education (India),2007.
- 2. Timothy Boronczyk, Martin E. Psinas, "PHP and MYSQL (Create-Modify-Reuse)", WileyIndia Private Limited, 2008.

B.Sc.III Year VI Semester Syllabus PHP with MY SQL

(PROJECT/OPTIONAL)

Theory Practical

3 Hours/Week 3 Credit 3 Hours/Week 1 Credit Internal marks = 15 External Marks = 60

Unit - I

Introducing PHP – What is PHP? Why use PHP? Evolution of PHP, Installing PHP, Other ways to run PHP, Creating your first script. PHP Language Basics – Using variables, Understanding Data Types, Operators and Expressions, Constants. Decisions and Loops – Making Decisions, Doing Repetitive Tasks with Looping, Mixing Decisions and Looping with HTML. Strings – Creating and Accessing Strings, Searching Strings, Replacing Text with Strings, Dealing with Upper and Lowercase, Formatting Strings. Arrays – Creating Arrays, Accessing Array Elements, Looping through Arrays with for-each, Creating Function, Reading Data in Web pages: setting up web pages to communicate with PHP, Handling Text Fields, Text Areas, Checkboxes, Radio Buttons, List Boxes, Password Controls, Image Maps, File Uploads, Buttons, and PHP Browser.

Unit - II

Object oriented programming: creating Classes and objects, setting access to properties and methods, constructors, destructors, Inheritance, overriding and overloading methods, auto loading classes. Advanced OOP: Static members and inheritance, Abstract classes, Interfaces, object iteration, comparing objects, class constants, final keyword, reflection. File Handling: fopen, feof, fgets, closing a file, fgetc, file_get_contents, reading a file into an array with file, file_exists, filesize, fread, fscanf, parse_ini_file, stat, fseek, copy, unlink, fwrite, reading and writingbinary files, appending a file, file_put_contents, locking files

Unit - III

Introducing Databases and SQL – Deciding How to Store Data, Understanding Relational Databases, Setting Up MySQL, A Quick Play with MySQL, Connecting MySQL from PHP. Retrieving Data from MySQL with PHP, Retrieving Data with SELECT, Creating a Member Record Viewer. Manipulating MySQL Data with PHP – Inserting, Updating, and Deleting Records, Building a Member Registration Application. Sessions, Cookies and FTP.

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2. Timothy Boronczyk, Martin E. Psinas, "PHP and MYSQL (Create-Modify-Reuse)", WileyIndia Private Limited, 2008.

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