

Department Of Computer Science & Applications

A 36 hours Value Added Course is going to be organized by the department of Computer Science for Academic Year 2022-2023.



**Value Added
Course.
2022-2023**

Analy
HOD/LECTURER



**TELANGANA TRIBAL WELFARE
RESIDENTIAL DEGREE COLLEGE
FOR WOMEN SIRICILLA**



Eligibility:

- ➡ All Degree Students Are Eligible
- ➡ Application Date: 01-08-2022
- ➡ Last Date For Application: 10-08-2022
- ➡ Commencement Of Classes: 16-08-2022
- ➡ Date Of Exam: October 2022

Rehana
IQAC COORDINATOR

K. D. J.
PRINCIPAL

SATYAJITANA UNIVERSITY, KARIMNAGAR
COMMON FOR ALL B.A./B.Sc. / B.Com/ BBA IV Semester
FOR THE ACADEMIC YEAR 2017-18
BASIC COMPUTER SKILLS (BCS)
Credits: 2

Max .Marks: 50

Exam Duration: 2 Hrs

UNIT-I

KNOWING COMPUTER: Introduction, Definition of Computer, Basic Applications of Computer, Components of Computer System, Hardware, Software, User, and Data. Hardware categories: Input and Output Devices, Central Processing Unit, Memory, Storage Devices. Software categories: Application Software, Systems software.

OPERATING SYSTEM: Introduction, Basics of Operating System, popular operating systems (LINUX, WINDOWS), The User Interface Task Bar, Icons, Menu, Running an Application, Changing system date and time, changing display properties, add or remove programs, changing mouse properties, adding and removing printers, creating and renaming of files and directories.

UNIT-II

WORD PROCESSING: Introduction, opening word processing package, Menu bar, Using the Help, Using the icons below the menu bar. Opening, saving and closing documents, page setup, print preview, printing of documents. Document creation, editing text, text selection, cut, copy and paste, spell check, thesaurus. Formatting text, font and size selection, alignment of text, paragraph indenting, bullets and numbering, changing case. Table manipulation, draw table, changing cell width and height, alignment of text in cell, delete/insertion of row and column, border and shadings.

INTERNET, WWW AND WEB BROWSERS: Introduction, Concept of internet, applications of internet, World Wide Web, Popular web browser softwares, Search engines, Accessing web browser, Downloading web pages, Printing web pages, Understanding URL, Introduction to E-Mail, Inbox, Sending e-mail, Performing online transactions such as online banking, Ticket booking, Applying for e-pass scholarship/ jobs.

References:

1. Introduction to Computers By Peter Norton TMH, Publications.
2. Fundamentals of Computers By Reema Thareja, Oxford publications


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Name of Program: Post Graduate Diploma in Computer Applications (PGDCA)

Program Outcomes

1. Students are eligible to pursue MCA (Lateral Entry) and apply for jobs in various multinational companies, industries, banks.
2. They can start their own business in web development and software development.
3. Students are able to use their knowledge to develop different web and windows based applications.
4. Students can create database, websites and applications for their clients.
5. Students can also pursue the career of computer operators.
6. Students can also become network administrators.

Program Specific Outcomes

1. Students become eligible to pursue MCA and M.Sc. in Information Technology.
2. They can also join MBA.

Course Outcomes

1. The students acquire knowledge about basics and fundamentals of information technology, basic programming concepts of procedure oriented and object oriented languages (C and Java), fundamentals of web programming (HTML, CSS, Javascript and PHP), DataBase management system, computer networking and computer based accounting information.
2. Students learn to develop and debug codes in different languages.
3. Students are able to design web based applications using PHP, HTML, DHTML, CSS and Javascript.

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**TELANGANA TRIBAL WELFARE RESIDENTIAL
DEGREE COLLEGE FOR WOMEN SIRICILLA**



VALUE ADDED COURSE

AY-2022-23

**BASICS OF PROGRAMMING
CONCEPTS IN C**

**DEPARTMENT OF
COMPUTER
SCIENCE&APPLICATIONS**



**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN,
SIRCILLA**

**Value Added Course in Computer Science
"BASICS OF PROGRAMMING CONCEPTS IN C"**

A 30 hours value added course is going to be organized by the Department of Computer Science for the Academic Year 2022-23.

*Interested students can apply

Eligibility:

All degree students are eligible

Application Date: 21-07-2022


Last Date for the Application: 08-08-2022

Commencement of Classes: 16-08-2022

Date of Exam: 26th September, 2022


INCHARGE


IQAC COORDINATOR


PRINCIPAL
Principal
TTWRDC(W)SIRCILLA
Dist: Rajanna Sircilla

Course Name: Basics of Computer Programming in C

Course Code: Cs005

Duration: 30 Hrs

Test1(Theory)+Test2(Practical)= 50 Marks

Course Plan:

Week 1 : Introduction. Fundamentals of C, Straight-Line Code. Overview of C Language

Week 2 : Variables, Operators, Expressions and Conditionals.

Week 3 : Data types

Week 4 : Loops

Week 5 : Functions

Week 6 : One-Dimensional Arrays and Pointers

Week 7 : Recursion

Week 8 : Multi-dimensional Arrays, Linked Lists.

Week 9 : Operating on Files

Week 10 : Dynamic Memory Allocation

Week 11 : Organizing C projects, working with multiple source directories, makefiles.

Week 12: Command Line Arguments

Course Outcomes:

1. Demonstrate problem solving skills by developing and implementing algorithms to solve problems.
2. Derive problem specifications from problem statements.
3. Develop algorithms using modular design principles to meet stated specifications.
4. Create code to provide a solution to problem statements ranging from simple to complex.
5. Test and debug programs and program modules to meet specifications and standards.
6. Create programs that contain clear and concise program documentation.
7. Implement programs that use data types and demonstrate an understanding of numbering systems.
8. Incorporate both basic and advanced control structures appropriately into algorithms.

Practical:

1. C Program to Add Two Numbers
2. C Program to Check Whether Number is Even or Odd
3. C Program to Calculate Sum of Natural Numbers
4. C Program to Check Whether a Number is a Palindrome or Not
5. C program to Sum of Fibonacci Numbers at Even Indexes up to N Terms



Department Of Computer Science&Applications

A 36 hours Value Added Course is going to be organized by the department of Computer Science for Academic Year 2021-2022.



**Value Added
Course.
2021-2022**

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HOD/LECTURER



TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN SIRICILLA



Eligibility:

- ➔ All Degree Students Are Eligible
- ➔ Application Date:05-08-2021
- ➔ Last Date For Application:15-08-2021
- ➔ Commencement Of Classes:23-08-2021
- ➔ Date Of Exam:December 2021

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IQAC COORDINATOR

[Signature]
PRINCIPAL

SATAVAHANA UNIVERSITY, KARIMNAGAR
COMMON FOR ALL B.A./B.Sc. / B.Com/ BBA IV Semester
FOR THE ACADEMIC YEAR 2017-18
BASIC COMPUTER SKILLS (BCS)
Credits: 2

Max .Marks: 50

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**TELANGANA TRIBAL WELFARE RESIDENTIAL
DEGREE COLLEGE FOR WOMEN SIRICILLA**



VALUE ADDED COURSE

AY-2021-22

COMPUTER FUNDAMENTALS

**DEPARTMENT OF
COMPUTER
SCIENCE&APPLICATIONS**



**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN,
SIRICILLA**

**Value Added Course in Computer Science
"COMPUTER FUNDAMENTALS"**

A 36 hours value added course is going to be organized by the Department of Computer Science for the Academic Year 2021-2022.

*Interested students can apply

Eligibility:

All degree students are eligible

Application Date: 26-07-2021

Last Date for the Application: 10-08-2021

Commencement of Classes: 23-08-2021

Date of Exam: 21st October, 2021



INCHARGE



IQAC COORDINATOR



PRINCIPAL

Principal
TTWRDC(W)SIRCILLA
Dist: Rajanna Sircilla

Course Name: Computer Fundamentals

Course Code: Cs017

Duration: 30Hrs

40 Marks

OBJECTIVE:

The course is designed to aim at imparting a basic level appreciation programme for the students. After completing the course the incumbent is able to use the computer for basic purposes of preparing her personnel/business letters, viewing information on Internet (the web), sending mails, using internet banking services etc. This allows her to be also a part of computer users list by making them digitally literate. This would also aid the PC penetration program. This helps them to maintain their small account using the computers and enjoy in the world of Information Technology.

Course Plan:

UNIT – I Introduction to Computers

Computer system: characteristics and capabilities. Computer Hardware and Software: Block Diagram of a Computer, Different Data Processing: Data, Data Processing System, Storing Data, Processing Data. Classification of Computers, Functions of CPU

UNIT-II : Input/output and Auxiliary Storage Devices

Introduction to Input Devices: Categorizing Input Hardware, Keyboard, Direct Entry — Card Readers, Scanning Devices — O.M.R., Character Readers, Thumb Scanner. MICR, Smart Cards, Voice Input Devices, Pointing Devices — Mouse, Light Pen. Touch Screen.

Computer Output: Output Fundamentals, Hardcopy Output Devices, Impact Printers, Non-Impact Printers, Plotters, Computer output Microfilm/Microfiche (COM) systems, Softcopy Output Devices, Cathode Ray Tube, Flat Screen Technologies, Projectors, Speakers.

Course Outcomes:

- ❖ To understand the basic concepts of computer system
- ❖ To know the uses of computers in various fields
- ❖ To understand the computing process
- ❖ To understand the characteristics of computers
- ❖ To do the classification of computers
- ❖ To discuss various generations of computers
- ❖ To understand the various functions of CPU
- ❖ To know the concept of Virtual Memory





**TELANGANA TRIBAL WELFARE RESIDENTIAL
DEGREE COLLEGE FOR WOMEN SIRICILLA**



VALUE ADDED COURSE

AY-2020-21

COMPUTER FUNDAMENTALS

**DEPARTMENT OF
COMPUTER
SCIENCE & APPLICATIONS**



**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN,
SIRICILLA**

**Value Added Course in Computer Science
"COMPUTER FUNDAMENTALS"**

A 30 hours value added course is going to be organized by the department of Computer Science for the Academic Year 2020-21.

*Interested students can apply

Eligibility:

All degree students are eligible

Application Date: 03-08-2020

Last Date for the Application: 28-08-2020

Commencement of Classes: 04-09-2020

Date of Exam: 2nd November 2020



INCHARGE



IQAC COORDINATOR



PRINCIPAL

Principal
TTWRDC(W)SIRCILLA
Dist: Rajanna Sircilla

Course Name: Computer Fundamentals
Course Code: Cs017
Duration: 30Hrs

40 Marks

OBJECTIVE:

The course is designed to aim at imparting a basic level appreciation programme for the students. After completing the course the incumbent is able to use the computer for basic purposes of preparing her personnel/business letters, viewing information on Internet (the web), sending mails, using internet banking services etc. This allows her to be also a part of computer users list by making them digitally literate. This would also aid the PC penetration program. This helps them to maintain their small account using the computers and enjoy in the world of Information Technology.

Course Plan:

UNIT – I Introduction to Computers

Computer system: characteristics and capabilities. Computer Hardware and Software: Block Diagram of a Computer, Different Data Processing: Data, Data Processing System, Storing Data, Processing Data. Classification of Computers, Functions of CPU

UNIT-II : Input/output and Auxiliary Storage Devices

Introduction to Input Devices: Categorizing Input Hardware, Keyboard, Direct Entry — Card Readers, Scanning Devices — O.M.R., Character Readers, Thumb Scanner. MICR, Smart Cards, Voice Input Devices, Pointing Devices — Mouse, Light Pen. Touch Screen.

Computer Output: Output Fundamentals, Hardcopy Output Devices, Impact Printers. Non-Impact Printers, Plotters, Computer output Microfilm/Microfiche (COM) systems, Softcopy Output Devices, Cathode Ray Tube, Flat Screen Technologies. Projectors, Speakers.

Course Outcomes:

- ❖ To understand the basic concepts of computer system
- ❖ To know the uses of computers in various fields
- ❖ To understand the computing process
- ❖ To understand the characteristics of computers
- ❖ To do the classification of computers
- ❖ To discuss various generations of computers
- ❖ To understand the various functions of CPU
- ❖ To know the concept of Virtual Memory

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**TELANGANA TRIBAL WELFARE RESIDENTIAL
DEGREE COLLEGE FOR WOMEN SIRICILLA**



VALUE ADDED COURSE

AY-2019-20

**BASICS OF PROGRAMMING
CONCEPTS IN C**

**DEPARTMENT OF
COMPUTER
SCIENCE & APPLICATIONS**



**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN,
SIRICILLA**

**Value Added Course in Computer Science
"BASICS OF PROGRAMMING CONCEPTS IN C"**

A 36 hours value added course is going to be organized by the department of Computer Science for the Academic Year 2019-2020.

*Interested students can apply

Eligibility:

All degree students are eligible


Application Date: 26-08-2019

Last Date for the Application: 05-09-2019

Commencement of Classes: 09-09-2019

Date of Exam: 18TH December 2019


INCHARGE


PRINCIPAL
Principal
TTWRDC(W)SIRCILLA
Dist: Rajanna Sircilla

Course Name: Basics of Computer Programming in C
Course Code: Cs005
Duration: 30 Hrs
Test1(Theory)+Test2(Practical)= 50 Marks

Course Plan:

Week 1 : Introduction. Fundamentals of C, Straight-Line Code. Overview of C Language
Week 2 : Variables, Operators, Expressions and Conditionals.
Week 3 : Data types
Week 4 : Loops
Week 5 : Functions
Week 6 : One-Dimensional Arrays and Pointers
Week 7 : Recursion
Week 8 : Multi-dimensional Arrays, Linked Lists.
Week 9 : Operating on Files
Week 10 : Dynamic Memory Allocation
Week 11 : Organizing C projects, working with multiple source directories, makefiles.
Week 12: Command Line Arguments

Course Outcomes:

1. Demonstrate problem solving skills by developing and implementing algorithms to solve problems.
2. Derive problem specifications from problem statements.
3. Develop algorithms using modular design principles to meet stated specifications.
4. Create code to provide a solution to problem statements ranging from simple to complex.
5. Test and debug programs and program modules to meet specifications and standards.
6. Create programs that contain clear and concise program documentation.
7. Implement programs that use data types and demonstrate an understanding of numbering systems.
8. Incorporate both basic and advanced control structures appropriately into algorithms.

Practical:

1. C Program to Add Two Numbers
2. C Program to Check Whether Number is Even or Odd
3. C Program to Calculate Sum of Natural Numbers
4. C Program to Check Whether a Number is a Palindrome or Not
5. C program to Sum of Fibonacci Numbers at Even Indexes up to N Terms



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**TELANGANA TRIBAL WELFARE RESIDENTIAL
DEGREE COLLEGE FOR WOMEN SIRICILLA**



VALUE ADDED COURSE

AY-2018-19

**BASICS OF PROGRAMMING
CONCEPTS IN C**

**DEPARTMENT OF
COMPUTER
SCIENCE & APPLICATIONS**



**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN,
SIRICILLA**

**Value Added Course in Computer Science
"BASICS OF PROGRAMMING CONCEPTS IN C"**

A 30 hours value added course is going to be organized by the department of Computer Science for the Academic Year 2018-2019.

*Interested students can Apply

Eligibility:

All degree students are eligible


Application Date: 25-06-2018

Last Date for the Application: 05-07-2018

Commencement of Classes: 09-07-2018

Date of Exam: 12th September, 2018

B. Srinivasulu
INCHARGE


PRINCIPAL
Principal
TTWRDC(W)SIRCILLA
Dist: Rajanna Sircilla

Course Name: Basics of Computer Programming in C

Course Code: Cs005

Duration: 30 Hrs

Test1(Theory)+Test2(Practical)= 50 Marks

Course Plan:

Week 1 : Introduction. Fundamentals of C, Straight-Line Code. Overview of C Language

Week 2 : Variables, Operators, Expressions and Conditionals.

Week 3 : Data types

Week 4 : Loops

Week 5 : Functions

Week 6 : One-Dimensional Arrays and Pointers

Week 7 : Recursion

Week 8 : Multi-dimensional Arrays, Linked Lists.

Week 9 : Operating on Files

Week 10 : Dynamic Memory Allocation

Week 11 : Organizing C projects, working with multiple source directories. makefiles.

Week 12: Command Line Arguments

Course Outcomes:

1. Demonstrate problem solving skills by developing and implementing algorithms to solve problems.
2. Derive problem specifications from problem statements.
3. Develop algorithms using modular design principles to meet stated specifications.
4. Create code to provide a solution to problem statements ranging from simple to complex.
5. Test and debug programs and program modules to meet specifications and standards.
6. Create programs that contain clear and concise program documentation.
7. Implement programs that use data types and demonstrate an understanding of numbering systems.
8. Incorporate both basic and advanced control structures appropriately into algorithms.

Practical:

1. C Program to Add Two Numbers
2. C Program to Check Whether Number is Even or Odd
3. C Program to Calculate Sum of Natural Numbers
4. C Program to Check Whether a Number is a Palindrome or Not
5. C program to Sum of Fibonacci Numbers at Even Indexes up to N Terms

B. Himabindu
Lecturer