

SKR & SKR Govt. College for Women(A), Kadapa.
NAAC Re- accredited – B Level
II BA(CA),III SEMESTER
NETWORKS AND INTERNET FOUNDATION

UNIT I

Introduction to Network, advantages and disadvantages of network , Types of Networks – Network topologies, Types of topologies- Connecting Devices – Hubs, Repeaters, Bridges, Routers, Network Interface Cards (NIC) and Switches – Network Operating system – analog and digital signal, analog and digital signal transmission

UNIT II

Introduction to Network Communication Model- Network Architecture –Application Layer, Presentation Layer, Session Layer, transport Layer, Network Layer, Data-link Layer, Physical Layer – TCP/IP Protocols- Protocols and their classification –Address Resolution Protocol(ARP) , Reverse Address Resolution Protocols (RARP) , SMTP, MIME, IMAP, POP, ICMP, HTTP, and Telnet – flow control and cryptography

UNIT III

Overview of Internet, revolution of Internet , Internet service providers (ISP) –setting windows environment for dial up networking, search engine, searching web using search engines – audio on internet – newsgroup – subscribing to news groups.

UNIT IV

Intranet concepts and architecture, building corporate world wide web protocol, Internet infrastructure, fundamentals of TCP/IP, - Internet Security design - intranet as business tools, future of intranet – protocols of communication.

UNIT V

Wireless Technology- aware of WML Protocol, planning your wireless home networkwireless networking equipments – Bluetooth and other wireless networks.- configuring wireless networks- Security – virus and antivirus, configuring firewalls.

TEXT BOOKS

1. Introduction to Computer Networks by P.K.Singh, VK Global Publications Pvt. Ltd.
2. Wireless Home Networking For Dummies, By Danny Briere, Hurley, Edward Ferris, Wiley publications

REFERENCE BOOKS

1. Computer Networks, Andrew S. Tanenbaum, Pearson edition ,Third Edition
2. Home Networking For Dummies, By Kathy Ivens , Wiley publications

SKR & SKR Govt. College for Women(A), Kadapa.
NAAC Re- accredited – B Level
II BA(CA), IV SEMESTER
Programming in C

Unit- I: Introduction to Algorithms and Programming Languages: Algorithm – Key features of Algorithms – Some more Algorithms – Flow Charts. Introduction to C: 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 – Go to Statement.

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, Strings: Introduction String and Character functions.

Unit- IV: Functions: Introduction – using functions – Function declaration/ prototype – Function definition – function call – return statement – Passing parameters – Scope of variables – Storage Classes – Recursive function.

Unit-V: Pointers: Understanding Computer Memory – Introduction to Pointers – declaring Pointer Variables – Passing Arguments to Functions using Pointer – Pointer and Arrays – Passing Array to Function. Structure, Union, and Enumerated Data Types: Introduction – Nested Structures – Arrays of Structures – Structures and Functions - Unions – Enumerated Data Types.

Reference Books:

1. Reema Thareja, Introduction to C programming, Oxford University Press.
2. E Balagurusamy, Programming in ANSI C Tata McGraw-Hill, Sixth Edition.
3. Ashok N Kamthane, Programming with ANSI and Turbo C, Pearson Publisher, 2002.
4. Henry Mulish & Hubert L.Coo Reema Thareja: The Spirit of C: An Introduction to Modern Programming, Jaico Publishing House, 1996.