



SUMATHI REDDY

INSTITUTE OF TECHNOLOGY FOR WOMEN

L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed during the last five years)

Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes offered during last five academic years

| S. No | Academic Year | Page No. |
|-------|---------------|----------|
| 1 | 2022-23 | 1-27 |
| 2 | 2021-22 | 28-52 |
| 3 | 2020-21 | 53-81 |
| 4 | 2019-20 | 82-106 |
| 5 | 2018-19 | 107-128 |

PRINCIPAL

Principal

**Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (TS)**



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INSTITUTE OF TECHNOLOGY FOR WOMEN

L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

No. SRITW/Prin/2022

Date: 07-11-2022

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names to the respective course coordinator. A detailed brochure regarding the courses is available in the notice board.

Criteria for Certification: Attendance $\geq 75\%$ and marks secured $\geq 70\%$.

: Important dates:

Registrations opening date: 14-11-2022

Registrations closing date: 21-11-2022

Course start date: 24-11-2022

Course end date: 30-12-2022

Courses offered:

1. E-Vehicle design for Electronics
2. AWS(Data Center Technician)
3. DEVOPS & Android Development
4. Fundamentals of Insurance

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HOD (CSE, ECE, H&SC)

Administrative Officer

In-charge, Exam Branch

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Board All

classrooms

Course Objectives:

- To familiarize with the basic electric component configuration for the Electric Propulsion unit.
- To expose utilization of different Energy storage system and Hybridization.
- To inculcate the knowledge while resolving issue of Energy management system.
- To deliver and discuss the about architecture, power electronic based drive control systems, battery management systems and grid integration issues of Electric and Hybrid vehicles.
- To introduce students to Electric vehicles and give them a brief idea about electric vehicles, and its importance.
- This course gives some basic technical foundations regarding electric vehicles In-order to help them move on to advanced electric vehicle courses.

Course Co-coordinator:

Mr.A. Rajesh

Asst. Prof, H&SC

For Registrations Contact:9381000904

Pre-requisites:

- Students should have access to a computer with minimum requirements (Pentium 4, Windows 7, 2 GB RAM, 5 GB Hard Disk Space) and a stable Internet connection.
- Commitment to spend at least one hour per week practicing the concepts introduced in the course.

Course Start Date: 24-11-2022

Course End Date: 30-12-2022

Venue: Seminar Hall(311)

Timings: 3:10PM-4:00PM

Rajan

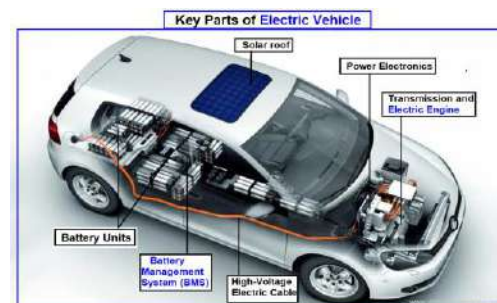
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A Course on E-VEHICLE DESIGN FOR ELECTRONICS

**Organized
by
Department of
Electronics and
Communication Engineering**



Course Instructors:

- 1. Mr.D.Koteswararao**
Asst. Prof, ECE
- 2. Mr.M. Ramu**
Asst. Prof, ECE



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E-VEHICLE DESIGN FOR ELECTRONICS

Date: 24-11-2022 to 30-12-2022

Course Content

- Electric Propulsion unit.
- Introduction to Electric Vehicle Dynamics.
- Introduction to electric components used in electric vehicles.
- Configuration and control of DC Motor drives.
- Configuration and control of Induction Motor drives,
- Configuration and control of Permanent Magnet Motor drives.
- Configuration and control of Switch Reluctance Motor drives.
- Drive system efficiency.
- Energy Storage.
- Introduction to Energy Storage Requirements Electric Vehicles.
- Battery based energy storage and its analysis,
- Fuel Cell based energy storage and its analysis.
- Super Capacitor based energy storage and its analysis, Flywheel based energy storage and its analysis. Hybridization of different energy storage devices.
- Energy Management Strategies: Introduction to energy management strategies used in hybrid and electric vehicles Classification of different energy management strategies,
- Comparison of different energy management strategies Implementation issues of energy management strategies.
- Electric Vehicle – Need - Types – Cost and Emissions – End of life. Electric Vehicle Technology – layouts, cables, components, Controls. Batteries – overview and its types. Battery plug-in and life. Ultra-capacitor, Charging – Methods and Standards. Alternate charging sources – Wireless & Solar.
- Motors (DC, Induction, BLDC) – Types, Principle, Construction, Control. Electric Drive Trains (EDT) – Series HEDT (Electrical Coupling) – Power Rating Design, Peak Power Source (PPS); Parallel HEDT (Mechanical Coupling) – Torque Coupling and Speed Coupling. Switched Reluctance Motors (SRM) Drives – Basic structure, Drive Convertor, Design.
- Basic Electronics Devices – Diodes, Thyristors, BJTs, MOSFETs, IGBTs, Convertors, Inverters. Safety – Risks and Guidance, Precautions, High Voltage safety, Hazard management. Sensors - Autonomous EV cars, Self-drive Cars, Hacking; Sensor less – Control methods- Phase Flux Linkage-Based Method, Phase Inductance based, and Modulated Signal Injection, Mutually Induced Voltage-Based, Observer-Based.
- Hybrid Electric vehicles – Classification – Micro, Mild, Full, Plug-in, EV. Layout and Architecture – Series, Parallel and Series-Parallel Hybrid, Propulsion systems and components. Regenerative Braking, Economy, Vibration and Noise reduction. Hybrid Electric Vehicles System – Analysis and its Types, Controls.

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- Fuel cell – Introduction, Technologies & Types, Obstacles. Operation principles, Potential and I-V curve, Fuel and Oxidation Consumption, Fuel cell Characteristics – Efficiency, Durability, Specific power, Factors affecting, Power design of fuel Cell Vehicle and freeze capacity. Lifetime cost of Fuel cell Vehicle – System, Components, maintenance

Course Outcomes:

After completion of the course students will be able to learn

- The Electric components in detail.
- Apply controls of different motors for drive system efficiency.
- Understand various Energy storage devices including the Hybridization.
- Apply Energy management system strategies to solve problems.



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A course on **AWS (DATA CENTER TECHNICIAN)**

Organized by Department of Computer Science and Engineering

THE OBJECTIVE OF THE COURSE:

The objective of this course provide the strong foundation about AWS fundamentals which offers common cloud concepts, Core AWS services, AWS platform, including available services and their common use cases, AWS Cloud architectural principles (at the conceptual level), account security, and compliance.

For registration contact: **9948060101**

Course start date: **24-11-2022**

Course end date: **30-12-2022**

Course coordinator: Ms.M.Swetha

Course Instructors:

1. Mr.M.Mruthyunjaya

Asst. Prof,CSE

2. Ms.G.Sunitha

Asst. Prof, CSE

Timings: 3:10PM-4:00PM

Venue:

Lecture Hall1: 201

Lecture Hall2: 202



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AWS(Data Center Technician) Date: 24-11-2022 to 30-12-2022

Course Content:

- Data center and cloud computing are key technologies in building large-scale Internet services.
- Almost all major service providers, e.g., Amazon, Microsoft, Google, Facebook, NASDAQ, NYSE, Netflix, rely on data center and cloud platforms for storage, computation, exchange, etc.
- Most traditional computing and networking equipment vendors, e.g., IBM, Microsoft, Cisco, Juniper, HP, Dell, have been focusing on data center and cloud computing as a strategic area of development and marketing.
- Fundamental knowledge of data centers
- Cloud computing and offers hands-on opportunities.
- data center and cloud platform architecture
- data center network designs
- software-defined networks (SDN)
- virtualization technologies
- data center security
- traffic engineering, resource management,
- Green data centers.
- Overview (Cloud computing & Data centers)
- Software Defined Networking
- Cloud Service Measurements,
- Mininet Simulations,
- Virtualization
- Cloud computing(openstack and Mapreduce)
- Traffic engineering in Data centers,
- Flow table Management,
- Cloud Security, Network Virtualization
- Incast in cloud computing
- Task scheduling in Data centers
- Green Data centers,
- Open Virtual Switches and SDN controller programming,
- Virtual Networks with Flow Visor

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Course Outcomes:

After completion of the course students will be able to learn

- Real world tasks and skills performed by data center technicians.
- Tours of REAL equipment rooms.
- WAN and DHCP Server configuration.
- Cyber security via IPSEC.
- Ether-channel for vastly increasing data throughput.
- HSRP redundancy.
- Spanning Tree Protocol functions and administration.



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Pre-requisites:

- ∴ This course does not require any previous CI/CD or DevOps experience.
- ∴ Some basic Git & GitHub experience is desirable.
- ∴ Some basic Android development experience is required.
- ∴ Expertise with programming languages.
- ∴ Expertise with Automation Tools.

CourseStart Date: 24-11-2022

Course End Date: 30-12-2022

Venue: LH:307 & 308

Timings: 3:10PM-4:00PM

For Registrations contact :7093046235

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A Course on DEVOPS & Android development

Organized by Department of
Computer Science Engineering



Course Instructors:

1. Ms.P. Prathyusha Reddy
Asst. Prof,CSE
2. Mr.E. Hari Krishna
Asst. Prof,CSE

Course Objectives:

- This course helps the students to learn the Android Operating system, Gradle and Mobile application development using Android Studio. To Debug Android Application.
- To learn how to develop UI based Mobile Application using Android Studio.
- To design application for Mobile using various sensors.
- To design and develop an application using Database.
- To learn the alternatives to the Android SDK for writing apps.
- Analyze the file structure of an Android project.
- To assess general Android design guidelines.

Course Coordinator:

Ms.V. Pranathi

Asst. Prof, C.S.E



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DEVOPS&Android Development

Date: 24-11-2022 to 30-12-2022

Course Content:

Introduction to DevOps

- What is DevOps?
- History of DevOps
- Dev and Ops
- DevOps definitions, Software Development Life Cycle and main objectives of the DevOps
- Infrastructure As A Code
- Prerequisites for DevOps
- Tools (Jenkins, Chef, Docker, Vagrant and so on.)
- Continuous Integration and Development

Linux Concepts

- Linux Installation
- User Management
- Package Management
- Networking

Automation Concepts

- OS Basics
- Scripting Introduction
- Learn Shell Scripting
- Database Concepts
- Shell Variable, Decision Making and Shell Test Conditions
- Shell Loops, Re-directors, Exit status

Revision Controls System

- Subversion Controls/Git
- Working with local repositories, remote repositories
- branching
- merging
- cloning
- fetch/pull
- Installation of Git Server

Configuration Management

- Chef/Puppet/Ansible Introduction

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- Chef server Hands-on, workstation setup, Chef Distribution Kit and Concepts

Environments

- Attributes
- Resources
- Cookbook
- Run list
- Recipes
- Supermarket

Build Automation

- Introduction with Maven
- Maven structure and Phases
- Installation of Maven
- Configuration
- jar/war project structure

Tomcat Web Server

- Installation and Configuration
- Tomcat Manager
- Application Management
- App Deployment Methods

Nexus Artifacts/Proxy Tool

- Introduction to Nexus
- Installation and Configuration
- Repository Management
- Proxy Management
- Integration with Maven

Jenkins Framework

- Introduction to Jenkins
- Jenkins Installation
- User Profile and Management
- Security and Plugins Management
- Builds Setup
- Integration with Git, Maven, Tomcat

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LAMP Setup

Apache/HTTPD Web Service

- Installation of Apache
- Configuration of Apache
- Static Pages
- Dynamic Pages
- PHP Integration

MySQL Database

- Working with Database
- Introduction to MySQL Database
- Configuration
- User management
- Permission management
- Creating Database
- Data insertion/update
- MySQL Data Backup, Hands-on and MySQL GUI Tools

Installation of WordPress with LAMP

- Vagrant
- Introduction to Vagrant
- Vagrant Terminologies
- Installation of Vagrant
- Vagrant Proxy Project and hands-on

Working with Docker

- Introduction to Docker
- Docker Terminologies
- Installation of Docker
- Docker image creation and Docker hands-on

System Monitoring

- Introduction to Nagios
- Concepts behind Nagios
- Nagios Installation
- Hands-on

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DevOps Project Work

- Project LAMP Setup
- Web layer
- DB Layer
- App Layer
- Monitoring

Course Outcomes:

After completion of the course students will be able to learn

- About the DevOps Concepts and DevOps Tools
- Deploying the main DevOps tools
- To implement automated system update and DevOps lifecycle
- About virtualization and performance
- Providing the perfect security for the entire infrastructure
- Develop with the AWS SDK and identify best practices for building and deploying applications in the AWS Cloud.



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Course Objectives:

- ✓ Understand the fundamentals of insurance, peril and hazard and examples of each, risk pooling and its benefits, risk sharing and risk sharing types, and classification of insurance.
- ✓ Familiarizing the students with the Principle and practices of Life Insurance starting from designing of product to settlement of claim. This includes both theoretical and practical inputs on all functions/ operations carried but by Life insurance companies.
- ✓ Creating awareness and importance of insurance in the student hood will create a transformation.

Course Co-coordinator:

Mr.K. Ranganath

Asst. Prof, CSE

For Registrations Contact :8374902324

Pre-requisites:

- ✓ This course does not require any prerequisites.
- ✓ Students need to have interest in the course and commitment towards learning.

Course Start Date:24-11-2022

Course End Date: 30-12-2022

Venue: Lab 3(104) & Lab 5(109)

Timings: 3:10PM-4:00PM

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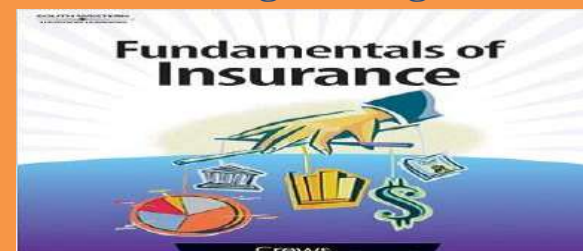
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WARANGAL - 506 371 (TS)**



A Course on FUNDAMENTALS OF INSURANCE

**Organized
by
Department of
Computer Science and
Engineering**



Course Instructors:

1. Mr.M.Nagaraju

Asst. Prof, H&Sc

2. Ms.P.Sucharitha

Asst. Prof, EEE



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Fundamentals of Insurance

Date: 24-11-2022 to 30-12-2022

Course Content:

INTRODUCTION TO INSURANCE Definition – History -Basic Concepts-Insurer-Insured-Insurance Policy-Insurance Premium-Role and importance – Functions – Advantages – Disadvantages.

PRINCIPLES OF INSURANCE : Insurance contract – Principles of insurance - Insurable Interest-Utmost good faith- Proximate Cause- Indemnity - Mitigation of Loss- Subrogation – Contribution - Type of insurance – Life – General –Insurance v/s Assurance – Double insurance – IRDA.

LIFE INSURANCE: Meaning – History – Features – Classification of policies – Surrender value – Introduction to Actuarial Science – Life insurance and Life annuity –Surrender of policies – Foreclosure – Group insurance.

Risk and Insurance Features and Function of Insurance, Principles of Insurance

Basics of Life Insurance, Principles of Insurance for Life

Types of Policies for Life, Policy Conditions for Life Insurance, General Insurance

Fire Insurance - Origin and Nature, Principles of Fire Insurance, Types of Fire Insurance Policies

Policy Conditions for Fire Insurance, Basics of Marine Insurance, Principles of Marine Insurance

Types of Marine Insurance Policies, Marine Insurance Clauses and Policy Conditions, Basics of Health Insurance

Health care and Health Insurance, Health Insurance Plans. Health Insurance - Policy Procedure

Health Insurance - Third Party Administrators, Health Insurance - Claim Procedure, Motor Insurance

Miscellaneous Insurance - (Business and Personal Package), Miscellaneous Insurance - (Industrial, Engineering and Rural), Re Insurance

Annuity and surrender value, Insurance Regulatory and Development Authority of India (IRDAI), Legal dimensions of Insurance, Insurance Marketing, Indian insurance market

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Course Outcomes:

After completion of the course students will be able to learn

- About Insurance Context.
- Get the Lowdown on Risk Pooling: How It Makes Insurance Tick.
- Exploring Risk Sharing in Insurance.
- Know Your Insurance: Explore Different Coverage Types.
- This course will help to create a considerable impact in the student mind.



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No. SRITW/Prin/2023

Date: 06-03-2023

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names to the respective course coordinator. A detailed brochure regarding the courses is available in the notice board.

Criteria for Certification: Attendance $\geq 75\%$ and marks secured $\geq 70\%$.

: Important dates:

Registrations opening date: 08-03-2023

Registrations closing date: 15-03-2023

Course start date: 20-03-2023

Course end date: 20-04-2023

Courses offered:

1. Privacy & Security in Online Social Media
2. Artificial Intelligence for Business
3. Computer Networking & System Security
4. Digital Forensics

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A Course on **Privacy & Security in Online Social Media**

Organized by Department of Computer Science and Engineering

Pre-requisites:

- ✓ Basic/Intermediate programming course. understanding of python will be necessary for the course.
- ✓ They should be able to quickly learn APIs, and to collect data from social networks.
- ✓ They must know how data collection from social systems works and basic knowledge about python programming language.

Course start date: 20-03-2023
Course end date: 20-04-2023

Venue: LH:116 & 117

Timings: 3:10PM-4:00PM

For Registration contact : 9505890405



Course Instructors:

1. Mr.M.Ruchi Nandan

Asst. Prof, CSE

2. Mr.V.Srinivas

Asst. Prof, CSE

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Course Objectives:

- ✓ This course helps the student to learn how to ensure confidentiality, integrity and availability of company information.
- ✓ The students will learn to develop basic understanding of security, cryptography, system attacks and defenses against them.
- ✓ To understand the privacy policy for any social media site which can change frequently.
- ✓ To know how to customize your privacy settings to restrict access to only certain people.
- ✓ To learn Online Social Networks, data collection from social networks, challenges, opportunities, and pitfalls in online social networks, APIs.

Course Co-ordinator:

Mr.E. Hari Krishna
Asst. Prof, CSE



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Privacy & Security in Online Social Media

Date: 20-03-2023 to 20-04-2023

Course Content:

- Public-key and symmetric-key cryptography
- Secure hash
- Public-key infrastructure
- Web authentication
- Wireless security
- Spam filtering
- Phishing
- Denial of service
- Firewalls
- Intrusion detection
- Virus and virus scan programs
- Anonymity and privacy
- Biometrics
- What is Online Social Networks, data collection from social networks, challenges, opportunities, and pitfalls in online social networks, APIs
- Collecting data from Online Social Media.
- Trust, credibility, and reputations in social systems
- Online social Media and Policing
- Information privacy disclosure, revelation and its effects in OSM and online social networks
- Phishing in OSM & Identifying fraudulent entities in online social networks
- Databases and Exploratory Data Analysis
- Data Representation and Storage
- Authentication and Authorization Database Security
- Formalism and interpretation of DP
- Fundamental DP mechanisms and properties
- Interactive and non-interactive DP
- DP for complex data Local Differential Privacy (LDP)
- Digital Literacy
- Digital Security, Privacy& Ethics

Course Outcomes:

After completion of the course students will be able to learn

- To appreciate various privacy and security concerns (spam, phishing, fraud nodes, identity theft) on Online Social Media
- Student will be able to clearly articulate one or two concerns comprehensively on one Online Social Media; this will be achieved by homework.

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A Course on **Artificial Intelligence for Bussiness**

Organized by Department of Computer Science and Engineering

Course Objectives:

- To provide learners with insights into the established and emerging developments in AI for business
- To gain insights into their data or, in the business lingo of today, to make "data-driven decisions.
- To create highly personalized and customized experiences and services
- To established standards when they add AI technologies to processes.

For registrations contact: **9030584180**

Course start date: 20-03-2023

Course end date: 20-04-2023

Course coordinator: **Mr.B.Prashanth**

Course Instructors:

- 1.Ms.M.Vishali
Asst. Prof,CSE
- 2.Mr. B.Chiranjeevi
Asst. Prof, CSE

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Timings: 3:10PM-4:00PM

Venue:

Lecture Hall1&2: 307 & 308



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Artificial Intelligence for Business

20-03-2023 to 20-04-2023

Course Content:

- ✚ AI for Business Introduction
- ✚ Big Data Overview
- ✚ Big Data Analysis
- ✚ Data Management Infrastructure
- ✚ Data Analysis: Extracting Intelligence from Big Data
- ✚ Introduction to Artificial Intelligence
- ✚ A Detailed View of Machine Learning
- ✚ Specific Machine Learning Methods: A Deep Dive
- ✚ Business Applications of Machine Learning and Personalization
- ✚ Personalization: Impacts on Markets
- ✚ Personalization: Addressing the Challenges
- ✚ Machine Learning in Finance: Fraud Detection
- ✚ Machine Learning in Finance: Additional Applications
- ✚ Autonomous Vehicles (AVs)
- ✚ Challenges to Adoption
- ✚ I-Driven Business Transformation
- ✚ Developing a Portfolio for AI Projects
- ✚ Lowering Barriers for AI Use
- ✚ AI in the Organizational Structure
- ✚ Risks with AI
- ✚ Governance
- ✚ Course Takeaways
- ✚ AI application sin Peoples Management
- ✚ AI strategy & governance
- ✚ Intelligent Agents and Process Automation
- ✚ Human Centered AI
- ✚ Customer Engagement and AI

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Course Outcomes:

After completion of the course students will be able to learn

1. A better understanding of AI and Machine Learning, using real-life examples.
2. About the different types and methods of Machine Learning, and how businesses have applied Machine Learning successfully.
3. About ethics and risks of AI in business management, and how to design governance frameworks for proper implementation.
4. About understanding of artificial intelligence in business and be able to incorporate these technologies into your business strategy.



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Sumathi Reddy Institute of Technology for Women

Ananthasagar (V), Hasanparthy (M)

WARANGAL - 506 371 (TS)



A COURSE ON COMPUTER NETWORKING & SYSTEM SECURITY
Organized by Department of Computer Science and Engineering

Course Objectives:

- ✓ To study various communications networks and their main components.
- ✓ To understand how to develop a networking plan.
- ✓ To know about the terminology associated with computer networks.
- ✓ Students will gain knowledge about the concepts of hacking and cracking, authorization and attacks.
- ✓ To identify the function of a firewall and how it keeps a computer secure and safe from viruses.
- ✓ To gain theoretical and practical skills to build comprehensive network security architecture to protect modern networks from emerging threats.
- ✓ To provide an in-depth understanding of how to protect modern networks from threats.

Course Co - ordinator:

Mr.B. Harish
Asst. Prof,H&Sc

For Registrations contact:**9505890405**



Course Instructors:

1.Dr.N.Venkatesh
Asst. Prof, CSE
2.Ms.G.Sunitha
Asst. Prof,CSE

Course Start Date: 20-03-2023

Course End Date: 20-04-2023

❖ Venue: LH-216 & 217

❖ Timings: 3:10PM-4:00PM

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INSTITUTE OF TECHNOLOGY FOR WOMEN

L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

Computer Networking & System Security

Date: 20-03-2023 to 20-04-2023

Course Content

Computer Networks and the Internet: This course provides an introduction to computer networks, with a special focus on the Internet architecture and protocols. Topics include layered network architectures, addressing, naming, forwarding, routing, communication reliability, the client-server model, and web and email protocols. Besides the theoretical foundations, students acquire practical experience by programming reduced versions of real Internet protocols.

- What is the Internet?
- The Network Edge
- The Network Core
- Delay, Loss, and Throughput in Packet-Switched Networks
- Internet Architecture Overview Application Layer
- The Web and HTTP
- FTP
- DNS
- Socket Programming (with UDP, TCP) Transport Layer
- UDP
- TCP the Network Layer
- Forwarding and Routing
- Network Service Models
- Routers
- The Internet Protocol (IP)
- Routing Algorithms: The Link-State (LS) Routing Algorithm, The Distance Vector (DV) Routing Algorithm, The Link Layer: Links, Access Networks, and LANs
- Switched LANs: Link-Layer Addressing and ARP
- Ethernet
- Link-Layer Switches
- VLANs Wireless and Mobile Networks:
- Wi-Fi: 802.11 Wireless LANs Multimedia Networking:
- Multimedia Networking Applications
- Streaming Stored Video
- Network Support for Multimedia Security in Computer Networks
- Messaging Integrity and Digital Signature, Secure Sockets Layer (SSL) and Transport Layer Security (TLS), HTTPS, IPv4 and IPv6 Security, Public-Key Infrastructure and Federated Identity Management, Usable Security: Introduction to Privacy,
 - Trust and Semantic Security,
 - Visualizing Privacy,
 - Web Browser Security and Privacy,
 - Authentication and Text Passwords,

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- Biometrics and Graphical Passwords.

Design and Analyze Secure Networked Systems: This course covers basic concepts of Cyber Security, Threats, Risk Management, Deep Defense, Cyber Resilience, Principles of Adequate Data Security, Public Key Infrastructure, Sign Software with GPG, setup client certificate, etc.

Basic Cryptography and Programming with Crypto API: In this course, you will learn the basic concepts and principles of cryptography, Symmetric Key Cryptography, Use of Crypto API to encrypt and Decrypt, etc.

Hacking and Patching: In this course, you will learn Command Injection, SQL Injection Attacks, Hacking Methodology, Memory Attacks and Defense, Secure Networked System with Firewall and IDS: This course covers Network Defense, Implementing Firewalls with Linux IPTable, Intrusion Detection Systems, Host IDS, etc.

Course Outcomes:

After completion of the course students will be able to learn

1. This course will give an understanding of the principles of systems security from application viewpoint.
2. Student will obtain hands-on experience on security threats and counter-measures. Goal is to study various types of threats, operating systems security, advanced topics on network security, web security and usable security.
3. After the completion of the course, the student will have understanding of practical aspects of security and will be able to analyze and design the secure systems.



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Organized by Department of Computer Science and Engineering

DIGITAL FORENSICS

Pre-requisites:

- Learning the digital forensics course does not require any specific prerequisites. However, it would be beneficial for learners to have some prior knowledge of forensics and how it works.
- It will help the student to understand the concepts covered in this course more easily with technical aptitude and analytical and communication skills.

Course Start date: 20--03-2023

Course End date: 20-04-2023

Venue: LH 201 & 202

Timings: 3:10PM-4:00PM



Course Instructors:

Ms.G. Rupasree

Asst .Prof, CSE

Ms.V. Tejaswini

Asst. Prof, CSE *Rupasree*

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Course Objectives:

- To study the fundamentals of Computer Forensics.
- To understand the basic digital forensics and techniques for conducting the forensic examination on different digital devices.
- To understand how to examine digital evidences such as the data acquisition, identification analysis.
- To learn, analyze and validate Forensics Data
- To study the tools and tactics associated with Cyber Forensics
- To learn how to describe the representation and organization of data within modern computer systems and understand the inner workings of file systems.

Course Coordinator:

Dr. G.Shyam Sunder

Assoc. Prof, H&Sc

For Registrations contact : **7869144128**



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Digital Forensics

Date: 20-03-2023 to 20-04-2023

Course Content:

- Introduction to Digital Forensics
- Legal considerations and search authority
- The investigation process
- Recognizing and collecting Digital Evidence
- Preservation of evidence/on scene triage
- Hash values & File Hashing
- Creating a Disk image
- Keyword and grey searches
- Network Basics
- Reporting and Peer Review
- Digital Forensics Project
- Cyber Crime and computer crime Introduction to Digital Forensics,
- Definition and types of cybercrimes, electronic evidence and handling, electronic media, collection, searching and
- storage of electronic media,
- introduction to internet crimes, hacking and cracking, credit card and
- ATM frauds, web technology,
- Cryptography, emerging digital crimes and modules.
- Basics of Computer organization, components of computer- input and output devices, CPU,
- Memory hierarchy, types of memory, storage devices,
- System software, application software, basics of computer languages.
- Computer Forensics Definition and Cardinal Rules,
- Data Acquisition and Authentication Process,
- Windows Systems-FAT12, FAT16, FAT32 and NTFS,
- UNIX file Systems, mac file systems, computer artifacts,
- Internet Artifacts,
- OS Artifacts and their forensic applications
- Forensic Tools and Processing of Electronic Evidence Introduction to Forensic Tools, Usage of Slack space,
- tools for Disk Imaging, Data Recovery,
- Vulnerability Assessment Tools, Encase and FTK tools,
- Anti Forensics and probable counters, retrieving information,
- process of computer forensics and digital investigations,
- processing of digital evidence,
- digital images, damaged SIM and data recovery,

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- multimedia evidence, retrieving deleted data: desktops, laptops and mobiles,
- Retrieving data from slack space, renamed file, ghosting, and compressed files.

Course Outcomes:

After the course students will be able to learn

- Earn new concepts from industry experts
- Gain a foundational understanding of a subject or tool
- Develop job-relevant skills with hands-on project
- How to identify, collect and preserve digital evidence.
- Scientific principles relating to digital forensics.
- Will be able to understand concepts like keyword lists, grep, file hashing, and report writing.



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No. SRITW/Prin/2021

Date: 16-10-2021

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names to the respective course coordinator. A detailed brochure regarding the courses is available in the notice board.

Criteria for Certification: Attendance $\geq 75\%$ and marks secured $\geq 70\%$.

Important dates:

Registrations opening date: 21-10-2021

Registrations closing date: 30-10-2021

Course start date: 01-11-2021

Course end date: 10-12-2021

Courses offered:

1. Node.js
2. Digital Forensics
3. Computer Networking & System Security
4. Computer Vision & Image Processing

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A Course on **NODE.JS**

Organized by Department of Computer Science and Engineering

Course Instructors:

1. Mrs. M. Vishali
Asst. Prof, CSE
2. Mr. Sukhaveerji Ghate
Asst. Prof, CSE

Course Start Date: 01-11-2021

Course End Date: 10-12-2021

Venue: LH-307 & 308

Timings: 3:10PM-4:00PM

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Course Objectives:

- Clearly understand the platform design choices that led to Nodejs choosing an event loop and what this means for applications built on that foundation.
- Understand the unique trade-offs Present in event-driven programming.
- Create Nodejs modules and express code modularity in an application.
- Understand the core flow control patterns in Node.js and know when it is appropriate to use call backs, event emitters or streams.
- Create and manipulate buffers efficiently.
- Understand how to manage error state and know when a process should exit due to an error.
- Build network applications with Nodejs

Course Co-ordinator:

Mr. K. Srikanth
Asst. Prof, H&Sc

For registrations contact: 9849570713



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NODE.JS

Date: 01-11-2021 to 10-012-2021

Course Content

- + Node JS Modules
- + Node Package Manager
- + What is NPM
- + Installing Packages Locally
- + Installing package globally
- + Adding dependency in package Json
- + Updating packages

Creating Web Server

- + Creating Web Server
- + Sending Requests
- + Handling HTTP requests

File System

- + Read File
- + Writing a File
- + Opening a File
- + Deleting a File
- + Writing a file asynchronously
- + Other I/O Operations

Debugging Node JS Application

- + Core Node JS Debugger
- + Event Emitter class
- + Inheriting Events
- + Returning event emitter

Express JS

- + Configuring Routes
- + Working with Express

Serving Static Resources

- + Serving Static Files
- + Working with Middle Ware

Database Connectivity

- + Connecting String
- + Configuring
- + Updating Records
- + Working with Select Command
- + Deleting Records

Project Development

Project Development using Node JS

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Web Development with Express

- ✚ Express scaffolding
- ✚ Defining and applying environments
- ✚ Dynamic routing
- ✚ Templating IN Express
- ✚ CSS engines with Express
- ✚ How to use JWT benefit of using JWT over Sessions
- ✚ Demo of making an Express web application
- ✚ File System Security issues and measures

All about Security

- ✚ Basic Authentication methods
- ✚ Password cryptography
- ✚ Setting up HTTPS
- ✚ How to safeguard your site from cross-site forgeries

Advanced Node Concepts

- ✚ Sending Emails
- ✚ Sending SMSs
- ✚ What is a web socket? Communication using sockets!
- ✚ Creating your own SMTP server
- ✚ Creating Command line app using Node
- ✚ Threads (or) worker in Node JS
- ✚ Making cron jobs in Node JS
- ✚ Node as proxy server

Writing Customized Node Modules

- ✚ Writing a functional module
- ✚ Extending the module's API
- ✚ Deploying a module to npm

Getting IT To Production

- ✚ How to set up production server environment
- ✚ How to set up auto crash recovery

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Course Outcomes:

After the course students can be able to learn

- ✚ Node.js is a platform for easily building fast, scalable network applications
- ✚ Learn how to use the event-driven, non-blocking I/O model to build data-intensive real-time applications that run across distributed devices.
- ✚ We will explore the design choices that make Node.js unique, how this change the way applications are built and how systems of applications work most effectively in this model.
- ✚ Learn how to create modular code that's robust, expressive and clear.
- ✚ Understand when to use callbacks, event emitters and streams. Use streams to easily manipulate data that would be impossible to fit in application memory.
- ✚ Gain confidence in handling errors effectively to ensure runtime reliability. The course has extensive lab exercises to reinforce the concepts and techniques covered.



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Course Objectives:

- To study the fundamentals of Computer Forensics.
- To understand the basic digital forensics and techniques for conducting the forensic examination on different digital devices.
- To understand how to examine digital evidences such as the data acquisition, identification analysis.
- To learn, analyze and validate Forensics Data
- To study the tools and tactics associated with Cyber Forensics
- To learn how to describe the representation and organization of data within modern computer systems and understand the inner workings of file systems.

Course Co-ordinator:

Dr.G.Shyam Sunder
Assoc.Prof,H&Sc

For Registrations contact:9705331128

Pre-requisites:

- Learning the digital forensics course does not require any specific prerequisites. However, it would be beneficial for learners to have some prior knowledge of forensics and how it works.
- It will help the student to understand the concepts covered in this course more easily with technical aptitude and analytical and communication skills.

Course Start Date: 01-11-2021

Course End Date: 10-12-2021

Venue: ComputerLab 3(104) and Lab 5(109)

Timings: 3:10PM-4:00PM

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Sumathi Reddy Institute of Technology for Women

Ananthasagar (M). Hasanparthy (M)

WARANGAL - 506 371 (TS)

A COURSE ON DIGITAL FORENSICS

**Organized
by**

**Department of
Computer Science and
Engineering**



Course Instructors:

1. Mr.B.Chiranjeevi
Asst. Prof,CSE
2. Mr.E.Hari Krishna
Asst. Prof,CSE



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L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

Digital Forensics

Date: 01-11-2021 to 10-12-2021

Course Content:

- Introduction to Digital Forensics
- Legal considerations and search authority
- The investigation process
- Recognizing and collecting Digital Evidence
- Preservation of evidence/on scene triage
- Hash values & File Hashing
- Creating a Disk image
- Keyword and grey searches
- Network Basics
- Reporting and Peer Review
- Digital Forensics Project
- Cyber Crime and computer crime Introduction to Digital Forensics,
- Definition and types of cybercrimes, electronic evidence and handling, electronic media, collection, searching and
- storage of electronic media,
- introduction to internet crimes, hacking and cracking, credit card and
- ATM frauds, web technology,
- Cryptography, emerging digital crimes and modules.
- Basics of Computer organization, components of computer- input and output devices, CPU,
- Memory hierarchy, types of memory, storage devices,
- system software, application software, basics of computer languages.
- Computer Forensics Definition and Cardinal Rules,
- Data Acquisition and Authentication Process,
- Windows Systems-FAT12, FAT16, FAT32 and NTFS,
- UNIX file Systems, mac file systems, computer artifacts,
- Internet Artifacts,
- OS Artifacts and their forensic applications
- Forensic Tools and Processing of Electronic Evidence Introduction to Forensic Tools, Usage of Slack space,
- tools for Disk Imaging, Data Recovery,
- Vulnerability Assessment Tools, Encase and FTK tools,
- Anti Forensics and probable counters, retrieving information,
- process of computer forensics and digital investigations,
- processing of digital evidence,
- digital images, damaged SIM and data recovery,

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WARANGAL - 506 371 (TS)

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- multimedia evidence, retrieving deleted data: desktops, laptops and mobiles,
- Retrieving data from slack space, renamed file, ghosting, and compressed files.

Course outcomes:

After the course students will be able to learn

- New concepts from industry experts
- Gain a foundational understanding of a subject or tool
- Develop job-relevant skills with hands-on project
- How to identify, collect and preserve digital evidence.
- Scientific principles relating to digital forensics.
- Will be able to understand concepts like keyword lists, grep, file hashing, and report writing.



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WARANGAL - 506 371 (TS)

A COURSE ON COMPUTER NETWORKING & SYSTEM SECURITY

Organized by Department of Computer Science and Engineering

Course Objectives:

- ✓ To study various communications networks and their main components.
- ✓ To understand how to develop a networking plan.
- ✓ To know about the terminology associated with computer networks.
- ✓ Students will gain knowledge about the concepts of hacking and cracking, authorization and attacks.
- ✓ To identify the function of a firewall and how it keeps a computer secure and safe from viruses.
- ✓ To gain theoretical and practical skills to build comprehensive network security architecture to protect modern networks from emerging threats.
- ✓ To provide an in-depth understanding of how to protect modern networks from threats.

Course Co - ordinator:

Mr.B. Harish
Asst. Prof, H&Sc

For Registrations contact: **9505890405**



Course Instructors:

- 1.Ms.Umalwara Md**
Asst. Prof,CSE
- 2.Mr.Y. Chanti**
Asst. Prof,CSE

Course Start Date: 01-11-2021

Course End Date: 10-12-2021

❖ Venue: LH-216 & 217

❖ Timings: 3:10PM-4:00PM

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L e a r n i n g a t i t s b e s t

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Computer Networking & System Security

Date: 01-11-2021 to 10-12-2021

Course Content

- Protocol layers and service models. OSI and Internet protocols.
- What is the Internet? Concepts of delay, security, and Quality of Service (QoS).
- Application layer protocols and client-server model.
- Sockets programming in C (client-server and web server programs).
- Reliable data transfer. Stop-and-Go evaluation. TCP and UDP semantics and syntax.
- TCP RTT estimation. Principles of congestion control.
- Security. Overview of threats, cryptography, authentication, and firewalls. Discussion of project.
- Principles of routing. Link-state and distance vector. IP semantics and syntax.
- Link-state and distance vector routing. Midterm Exam.
- Link layer. Error detection. Multiple access protocols. IEEE 802.3 Ethernet.
- Switching and bridging. Media. Signal strength. Data encoding.
- Wireless and mobile networks.
- Network management including SNMP. Network troubleshooting. Hot topics such as SDN and IoT.
- Hot topics such as SDN and IoT (continued). Course wrap-up.
- Identify and Analyze malicious code and Activity.
- Implement and operate endpoint device security.
- Operate and configure cloud security.
- Secure Big Data Systems & Operate and secure Virtual Environments
- Case studies
- Introduction: Computer security concepts, threats, attacks; Malicious Software: Types of Malicious Software (Malware), Vulnerability,
- Exploits, Social Engineering–SPAM E-mail, Zombie, Bots, Keyloggers, Phishing, Spyware.
- Operating System Security
- System Security Planning, Application Security,
- Linux/Unix Security, Windows Security, Virtualization Security
- Web Security: Secure E-mail and S/MIME, Domain Keys Identified Mail,
- Secure Sockets Layer (SSL) and Transport Layer Security (TLS), HTTPS,
- IPv4 and IPv6 Security,
- Public-Key Infrastructure and Federated Identity Management.
- Usable Security: Introduction to Privacy,
- Trust and Semantic Security,
- Visualizing Privacy,
- Web Browser Security and Privacy,
- Authentication and Text Passwords,
- Biometrics and Graphical Passwords.

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Course Outcomes:

After the course students will be able to learn

1. The principles of systems security from application viewpoint.
2. Student will obtain hands-on experience on security threats and counter-measures. Goal is to study various types of threats, operating systems security, advanced topics on network security, web security and usable security.
3. After the completion of the course, the student will have understanding of practical aspects of security and will be able to analyze and design the secure systems.



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A Course on *Computer vision & Image processing*

Organized by Department of Computer Science and Engineering

Course Objectives:

- This course helps the students to learn the fundamentals of image formation.
- To introduce students, the major ideas, methods and techniques of computer vision and pattern recognition.
- To develop an appreciation for various issues in the design of computer vision and image recognition systems.
- To provide the student with programming experience from implementing computer vision and object recognition applications.
- To familiarize students with image enhancement and restoration techniques.
- To explain different image compression techniques and introduce segmentation and morphological processing techniques.

Course Co-ordinator:

Dr.N.Srivani

Prof, H&Sc

For Registrations Contact:9966012184

Course Start Date: 01-11-2021

Course End Date: 10-12-2021

Venue: LH 301 & 302

Course Instructors:

1. Ms.J.Vedika

Asst. Prof, CSE

2. Mr.M.Mrutyunjaya

Asst. Prof, CSE

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Timings:3:10PM-4:00PM



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Computer Vision & Image Processing

Date: 01-11-2021 to 10-12-2021

Course Content:

- ✓ Introduction to Computer Vision
- ✓ Image Processing with Opencv and Pillow
- ✓ Machine Learning Image Classification
- ✓ Object detection
- ✓ Introduction to Computer Vision and Basic Concepts of Image Formation
- ✓ Introduction and Goals of Computer Vision and Image Processing
- ✓ Image Formation Concepts.
- ✓ Fundamental Concepts of Image Formation: Radiometry
- ✓ Geometric Transformations, Geometric Camera Models.
- ✓ Fundamental Concepts of Image Formation: Camera Calibration
- ✓ Image Formation in a Stereo Vision Setup,
- ✓ And Image Reconstruction from a Series of Projections.
- ✓ Image Processing Concepts: Image Transforms.
- ✓ Image Processing Concepts: Image Transforms, Image Enhancement.
- ✓ Image Processing Concepts: Image Filtering, Colour Image Processing, Image Segmentation
- ✓ Image Descriptors and Features: Texture Descriptors
- ✓ Colour Features, Edges/Boundaries.
- ✓ Image Descriptors and Features: Object Boundary and Shape Representations.
- ✓ Image Descriptors and Features: Interest or Corner Point Detectors,
- ✓ Histogram of Oriented Gradients, Scale Invariant Feature Transform,
- ✓ Speeded up Robust Features, Saliency
- ✓ Fundamentals of Machine Learning
- ✓ Linear Regression, Basic Concepts of Decision Functions
- ✓ Elementary Statistical Decision Theory
- ✓ Parameter Estimation
- ✓ Clustering for Knowledge Representation
- ✓ Dimension Reduction, Linear Discriminant Analysis.
- ✓ Applications of Computer Vision
- ✓ Artificial Neural Network for Pattern Classification
- ✓ Convolutional Neural Networks, Autoencoders.
- ✓ Applications of Computer Vision
- ✓ Gesture Recognition, Motion Estimation and Object Tracking,
- ✓ Programming Assignments.

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Course Outcomes:

After the course students will be able to learn

1. Fundamental concepts/issues of Computer Vision and Image Processing, and major approaches that address them.
2. This course provides an introduction to computer vision including image acquisition and image formation models, radiometric models of image formation, image formation in the camera, image processing concepts
3. This course also provide knowledge on concept of feature extraction and selection for pattern classification/recognition, and advanced concepts like motion estimation and tracking, image classification, scene understanding, object classification and tracking, image fusion, and image registration,



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WARANGAL - 506 371 (TS)



SUMATHI REDDY

INSTITUTE OF TECHNOLOGY FOR WOMEN

L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

No. SRITW/Prin/2022

Date: 01-03-2022

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names to the respective course coordinator. A detailed brochure regarding the courses is available in the notice board.

Criteria for Certification: Attendance $\geq 75\%$ and marks secured $\geq 70\%$.

: Important dates:

Registrations opening date: 02-03-2022

Registrations closing date: 10-03-2022

Course start date: 14-03-2022

Course end date: 15-04-2022

Courses offered:

1. Women Rights
2. Cloud Services
3. Cyber Security


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Course Objectives:

- This course helps the students to appreciate women's contributions to society historically, culturally and politically.
- To appreciate variations in women's experiences across nations, cultures and time.
- To recognize key women rights in nation and across the globe and recognize the defenders who have made important contribution to furthering the rights of women and girls.
- To demonstrate a working knowledge of feminism and the field of women and gender studies.
- To assess how women's opportunities and achievements are constrained by systems of oppression and privilege.
- To recognize, critically analyze and choose paths of action for social change.

Course Co-ordinator:

Ms.T.Sruthi

Asst. Prof,C.S.E

For registrations Contact:9849237632

Pre-requisites:

- There are no prerequisites for this course but students should have a basic knowledge the rights that are available to women as per law.

Course Start Date: 14-03-2022

Course End Date: 15-04-2022

Venue: Seminar Hall(311)

Timings: 3:10PM-4:00PM

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A Course On WOMEN RIGHTS

**Organized
by**

**Department of
Computer Science and
Engineering**



Course Instructors:

1. Ms.P. Sucharitha
Asst. Prof,EEE
2. Ms.M. Sravanthi
Asst. Prof,ECE



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Women Rights

Date: 14-03-2022 to 15-04-2022

Course Content

- ✓ Social analysis (Caste, class, and gender)
- ✓ Gender equity audit
- ✓ Gender budgeting
- ✓ Gender and the SDGs – beyond SDG 5
- ✓ Special social welfare provisions for women
- ✓ Constitutional provisions against discrimination and for affirmative action, equality, and justice
- ✓ Laws and state mechanisms for the protection of women and redress (PWDVA, PNDDT, etc.)
- ✓ International standards, treaties, and reporting mechanisms
- Leadership skills
 - ✓ International Human Rights Law
 - ✓ International Women's Health and Human Rights
 - ✓ Understanding violence against women: Myths and Realities
 - ✓ Confronting gender based violence
 - ✓ Gender and Intersectionality
 - ✓ Women in leadership Positive change
 - ✓ Fundamental concepts of Women's Studies Definition-
 - ✓ Objectives of Women's Studies; Importance of Women's Studies
 - ✓ Women's Studies as an Academic Discipline
 - ✓ Role of UGC Centre for Women's Studies
 - ✓ Women's Studies in India and Abroad – Origin and Growth.
 - ✓ Women in Higher Education;
 - ✓ Gender issues in Health, Environment
 - ✓ Family welfare Measures, Indecent representation of Women in media; Women in Difficult circumstances; Constitutional.
 - ✓ Introduction-organized sector, unorganized sector
 - ✓ Role of Women in Economic Development –
 - ✓ Female Poverty and Poverty alleviation programs
 - ✓ Status of Women farmers and land rights
 - ✓ Women Entrepreneurs
 - ✓ Impact of Globalization on working women
 - ✓ National Policy for the empowerment of women.
 - ✓ Political participation of women
 - ✓ Political Socialization-
 - ✓ Women leaders in politics Women in Local Governance- Barriers- Reservation policies- Women's Political Rights



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- ✓ Issues of Girl child, Female, infanticide and foeticide
- ✓ Sex Ratio child marriage, Dowry & Property Rights
- ✓ Violence against Women, Domestic violence,
- ✓ Female Headed Households'
- ✓ Women in the Unorganized

Course Outcomes:

After the course students will be able to learn

- ✓ International standards, treaties, and reporting mechanisms
- Leadership skills
- ✓ International Human Rights Law
- ✓ International Women's Health and Human Rights
- ✓ Understanding violence against women: Myths and Realities
- ✓ Confronting gender based violence
- ✓ Gender and Intersectionality
- ✓ Women in leadership Positive change Define and Evaluate gender as a social construct.
- ✓ Identify the ways gender, power, privilege, and oppression play out across a range of cultures and human experiences.
- ✓ Demonstrate an understanding of gender as it intersects with sexuality, race, ethnicity, religion, class and other critical variables.
- ✓ Analyze human interactions and social/political systems using a "gender lens".
- ✓ Conduct scholarly research on key gender issues and/or debates.



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A Course on **CLOUD SERVICES (AMAZON EC2)** Organized by Department of Computer Science and Engineering

Course Objectives:

1. Students learn how to distribute traffic across Amazon EC2 instances using Elastic Load Balancing. Understand virtual networking in the cloud with Amazon VPC.
2. Create virtual firewalls with security groups. Secure delivery of data, videos, applications, and APIs with Amazon Cloud Front.
3. Provide an overview of different database services in the cloud. To learn and understand basics and working definitions of AWS.
4. To describe and provide an example of the core AWS services, including compute, network, database, and storage services.
5. To understand the AWS Well-Architected Framework.

Course Co-ordinator:

Ms.E.Soumya

ASST.PROF, CSE

For Registrations contact: 7702089255

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Course Instructors:

1.Mr. K. Ranganath

Asst. Prof, CSE

2.Mr. G. Ranadheer Reddy

Asst. Prof, CSE

❖ **Venue: Lab 3(104) & Lab 5(109)**

❖ **Timings: 3:10PM-4:00PM**

Course Start Date: 14-03-2022

Course End Date: 15-04-2022



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CLOUD SERVICES

Date :14-03-2022 to 15-04-2022

Course Content:

- Cloud Ecosystem, the Essential Characteristics
- Cloud Service Management Fundamentals
- Basics of Information Technology Service Management and Cloud Service Management, Service Perspectives,
- Cloud Service Models, Cloud Service Deployment Models
- Cloud Service Reference Model, Cloud Service LifeCycle,
- Basics of Cloud Service Design, Dealing with Legacy Systems and Services, Benchmarking of Cloud Services,
- Cloud Service Capacity Planning,
- Cloud Service Deployment and Migration,
- Cloud Marketplace, Cloud Service Operations Management
- Governance Definition, Cloud Governance Definition,
- Cloud Governance Framework, Cloud Governance Structure,
- Cloud Governance Considerations,
- Cloud Service Model Risk Matrix,
- Understanding Value of Cloud Services,
- Measuring the value of Cloud Services,
- Balanced Scorecard, Total Cost of Ownership
- Introduction to Cloud Computing
- Defining cloud computing
- Components of a computing cloud
- Differentiating types of clouds: public, private, hybrid
- Delivering services from the cloud
- Categorizing service types
- Comparing vendor cloud products: Amazon, Google, Microsoft and others
- Adopting the Cloud
- Key drivers of cloud computing solutions
- Instantaneous provisioning of computing resources
- Tapping into an infinite storage capacity
- Cost-effective pay-as-you-use billing models
- Evaluating barriers to cloud computing
- Handling sensitive data
- Aspects of cloud security
- Assessing governance solutions
- Exploiting Software as a Service (SaaS)
- Characterizing SaaS
- Streamlining administration with centralized installation
- Optimizing cost and performance with Scale on demand



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- Comparing service scenarios
- Improving collaboration with business productivity tools
- Simplifying business process creation by integrating existing components
- Inspecting SaaS technologies
- Deploying web applications
- Implementing web services: SOAP, REST
- Choosing a development platform
- Delivering Platform as a Service (PaaS)
- Exploring the technical foundation for PaaS
- Specifying the components of PaaS
- Analyzing vendor PaaS provisions
- Selecting an appropriate implementation
- Building services with solution stacks
- Evaluating the architecture of vendor-specific platforms
- Becoming familiar with service platform tools
- Managing cloud storage
- Controlling unstructured data in the cloud
- Deploying relational databases in the cloud
- Improving data availability
- Employing support services
- Testing in the cloud
- Monitoring cloud-based services
- Analyzing portability across platforms
- Deploying Infrastructure as a Service (IaaS)
- Enabling technologies
- Scalable server clusters
- Achieving transparency with platform virtualization
- Elastic storage devices
- Accessing IaaS
- Provisioning servers on demand
- Handling dynamic and static IP addresses
- Tools and support for management and monitoring
- Building a Business Case
- Calculating the financial implications
- Comparing in-house facilities to the cloud
- Estimating economic factors downstream
- Preserving business continuity
- Selecting appropriate service-level agreements
- Safeguarding access to assets in the cloud
- Security, availability and disaster recovery strategies
- Migrating to the Cloud
- Technical considerations
- Rearchitecting applications for the cloud
- Integrating the cloud with existing applications



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- Avoiding vendor lock-in
- Planning the migration and selecting a vendor

Course outcomes:

After the course students will be able to learn

1. How to explain the core concepts of the cloud computing paradigm: how and why this paradigm shift came about, the characteristics, advantages and challenges brought about by the various models and services in cloud computing.
2. Apply the fundamental concepts in datacenters to understand the tradeoffs in power, efficiency and cost.
3. Identify resource management fundamentals, i.e. resource abstraction, sharing and sandboxing and outline their role in managing infrastructure in cloud computing.
4. Analyze various cloud programming models and apply them to solve problems on the cloud.



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A Course on **CYBER SECURITY**

Course Objectives:

- TO CREATE SOLUTIONS IN INCIDENT HANDLING.
- IMPLEMENT CYBER SECURITY BEST PRACTICES AND RISK MANAGEMENT.
- TO COMMUNICATE IN A WRITTEN AND PROFESSIONAL MANNER TO STRATEGIZE.
- TO IDENTIFY AND IMPLEMENT LEGAL RAMIFICATIONS.
- TO INTEGRATE NETWORK MONITORING AND PRESENT REAL TIME SOLUTIONS.
- TO UNDERSTAND SOFTWARE DESIGN AND SECURE PRACTICES.
- TO UNDERSTAND CYBERSECURITY RISK IN AN ETHICAL, SOCIAL AND PROFESSIONAL MANNER.

Course Co-ordinator:

Mr.N.Govardhan

Asst. Prof, E.E.E

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Organized by Department of Electronics and Communication Engineering



❖ **Venue: LH 116 & 117**

❖ **Timings: 3:10PM-4:00PM**

Course Instructors:

1. **Mr.V.Srinivas**
Asst. Prof,CSE
2. **Mr.B.Prashanth**
Asst. Prof,CSE

Course Start Date:14-03-2022

Course End Date:15-04-2022



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CYBER SECURITY

Date: 14-03-2022 to 15-04-2022

Course Content:

- Introduction to Cyber Space
- History of Internet
- Cyber Crime
- Information Security
- Computer Ethics and Security Policies
- Choosing the Best Browser according to the requirement and email security
- Guidelines to choose web browsers
- Securing web browser
- Antivirus
- Email security
- Guidelines for secure password and wi-fi security
- Guidelines for setting up a Secure password
- Two-steps authentication
- Password Manager
- Wi-Fi Security
- Guidelines for social media and basic Windows security
- Guidelines for social media security
- Tips and best practices for safer Social Networking
- Basic Security for Windows
- User Account Password
- Smartphone security guidelines
- Introduction to mobile phones
- Smartphone Security Android Security
- IOS Security
- Cyber Security Initiatives in India
- Counter Cyber Security Initiatives in India
- Cyber Security Exercise
- Cyber Security Incident Handling
- Cyber Security Assurance
- Online Banking, Credit Card and UPI Security
- Online Banking Security

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- Mobile Banking Security
- Security of Debit and Credit Card
- UPI Security
- Micro ATM, e-wallet and POS Security
- Security of Micro ATMs
- e-wallet Security Guidelines
- Security Guidelines for Point of Sales (POS)
- Social Engineering
- Types of Social Engineering
- How Cyber Criminal Works
- How to prevent for being a victim of Cyber Crime
- Cyber Security Threat Landscape and Techniques
- Cyber Security Threat Landscape
- Emerging Cyber Security Threats
- Cyber Security Techniques
- IT Security Act and Misc. Topics
- IT Act Hackers-Attacker-Countermeasures
- Web Application Security
- Digital Infrastructure Security
- Defensive Programming
- Information Destroying and Recovery Tools
- Recovering from Information Loss
- Destroying Sensitive Information
- CCleaner for Windows

Course Outcomes:

After completion of the course students will be able to learn

- How to analyze and evaluate the cyber security needs of an organization.
- Conduct a cyber security risk assessment.
- Measure the performance and troubleshoot cyber security systems. Implement cyber security solutions



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No. SRITW/Prin/2020

Date: 22-08-2020

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names with the respective course coordinator. A detailed brochure regarding the courses is forwarded to their respective mail ids.

Criteria for Certification: Attendance $\geq 75\%$ and marks secured $\geq 60\%$.

: Important dates:

Registrations opening date: 24-08-2020

Registrations closing date: 31-08-2020

Course start date: 02-09-2020

Course end date: 02-11-2020

Courses offered:

1. Linux System Administration
2. Basics of Simulation Tools
3. Web Designing & Office Automation
4. Web Services

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**A COURSE
ON
LINUX SYSTEM ADMINISTRATION**
Organized by the Department of Computer Science and Engineering

Course Objectives:

- Grasp modeling concepts with emphasis on performance analysis.
- Build simulation models and their parameterization.
- Be able to identify, formulate, solve problems and implement solutions for engineering, managerial and societal requirements
- Possess skills related to design / re-design and conduct experiments, analyze and interpret data through systems thinking and modeling approaches
- the ability to accomplish the integration of systems using appropriate analytical, computational and application practices and procedures.

Course Instructors:

1. **Ms.S.Shwetha**
Asst. Prof, CSE
2. **Ms.M.Anitha**
Asst. Prof. ECE

Course Start Date: 02-09-2020
Course End Date: 02-11-2020

Venue: Online

Course Coordinator:

Mr.M. Ranjith Kumar
Asst.Prof, CSE

For registrations contact: **9949254506**

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Timings: 3:10PM-4:00PM

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LINUX SYSTEM ADMINISTRATION

Date: 02-09-2020 to 02-11-2020

Course Content

Introduction to Linux and UNIX

- History of UNIX & LINUX
- Basic Concepts of Operating Systems, Kernel, shell and file system structure

Installation of Linux

- Different types of Installation Methods
- GUI
- Text

Linux System Structure

- Basic concepts of Linux
- Differences between Red Hat Enterprise Linux & CentOS
- Basic bash commands of Linux
- Editors [GUI & CLI]

Boot Process of Linux

- What is booting and boot process of Linux?
- Init Process or Runlevels

Software Package Administration

- Description of a Repository
- RPM and YUM
- Difference between RPM and YUM
- Configuration of YUM server
- Installing and deleting software packages
- Querying and updating software packages

User and Group Administration

- Types of Users in Linux
- Creating and deleting Users and Groups
- Modifying Users profile
- Adding Users into the Groups

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- Important system files related to User & Group administration

Advanced File Permissions

- Importance of Permissions
- Types of Permissions
- User level Permissions
- Group level Permissions
- Setting Access Level Permissions on Users & Groups

Disk Partitioning and Mounting File System

- Definition of Partition
- Types of Partitions
- Difference between ext2, ext3 and ext4 file systems
- Creating partitions using fdisk utility
- Formatting partitions using mkfs to create file systems
- Mounting various file systems temporarily and permanently

Logical Volume Management

- What is LVM?
- Conversion of Partition into Physical Volume
- Creating volume groups and logical volumes
- Mounting the logical volume file systems
- Extend and reduce the logical volumes.
- Data storage using LVM
- Renaming volume groups and logical volumes
- Removing physical volume, volume group and logical volume

Backup and Recovery

- Introduction to various types of backup media
- Backup and restoring using tar commands
- Automation of Jobs

NFS

- Configuring NFS server
- Mounting NFS exports on clients

NIS

- Basics of NIS

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- Configuring NIS Servers and client
- Creating NIS users

DNS

- Basics of Internet
- Basics of DNS and BIND 9
- Configuring DNS primary server

DHCP

- Configuring Linux as DHCP Server
- Configuring various clients for DHCP Server

Web Server (Apache)

- Basics of Web Service
- Introduction to Apache
- Configuring Apache for main site
- Configuring Apache for multiple sites using IP-based, port based and name-based

FTP Server

- Basics of File Transfer Protocol.
- Configuring vsftpd for anonymous ftp service.

Proxy Server (SQUID)

- Basics of proxy services
- Configuring proxy services
- Creating ACL's for controlling access to internet

Samba Server

- Basics of file sharing in Windows
- Configuring Samba service for file sharing with windows systems

Mail Server Configuration

- Basics of Mail Servers
- Configuring SMTP service using send mail

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Log Server

- Importance of logs
- Configuring Syslog Messages

Network Connections

- Configuring Physical IP Address
- Configuring Virtual IP Address
- Enabling & Disabling the Network Connections
- Iptables

Basics of Shell scripting

Troubleshooting Linux

- Recovering the super user password.
- Troubleshooting network related problems.

Course Outcomes

After completion of the course students will be able to learn

- Understand the architecture of a Linux system.
- Install and maintain a Linux workstation, including X11 and setup it up as a network client.
- Work at the Linux command line, including common GNU and Unix commands. Handle files and access permissions as well as system security.



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Course Objectives:

- To Create Solutions in Incident Handling.
- Implement cyber security best practices and risk management.
- To communicate in a written and professional manner to strategize.
- To identify and implement legal ramifications.
- To integrate network monitoring and present real time solutions.
- To understand software design and secure practices.
- To understand cyber security risk in an ethical, social and professional manner.
- To implement successful solutions to security needs of a business through risk compliance, incident handling, integrated network solutions.

Course Coordinator:

Mr.E.Kumara Swamy

Asst.Prof, ECE

For registrations Contact no: 9849237632

Pre-requisites:

1. It is essential for the candidate to have a sound knowledge of information systems and networks.
2. They should also have hands-on technical experiences as well and be updated with the latest cyber security training propaganda.
3. Have the fundamentals of cyber security

Course Start Date: 02-09-2020

Course End Date: 02-11-2020

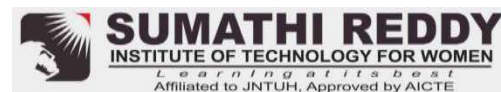
Venue: Online

Timings: 3:10PM-4:00PM

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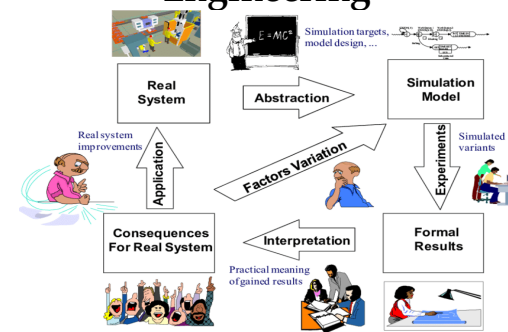


A Course
on

Basics of Simulation tools

**Organized
by**

**Department of Electronics
and Communication
Engineering**



Course Instructors:

1. **Mr.T.Ravi kumar**
Asst.Prof, CSE
2. **Mr.N.Govardhan**
Asst. Prof, ECE



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Learning at its best

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Basics of Simulation Tools

Date: 02-09-2020 to 02-11-2020

Course Content

The course emphasizes elementary modeling, numerical methods and their implementation on physical problems motivated by phenomena that students are likely to encounter in their careers, involving biomechanics, heat-transfer, structural analysis, control theory, fluid-flow, electrical conduction, diffusion, etc. The course will help students develop intuition about the strengths and weaknesses of a variety of modeling and numerical methods. The course will help students develop intuition about modeling physical systems and strengths and weaknesses of a variety of numerical methods, including:

- Discretization of differential equations,
- Methods for solving nonlinear systems,
- Gradient-based methods for optimization,
- Machine learning algorithms for optimization and
- Statistics and n-certainty quantification

Models that arise from physical systems in engineering and basic numerical methods

Theme: modeling and simulation of the dynamics of complex systems

Case study-modeling and simulation of the dynamics of a swarm

Case study-modeling and simulation of the mechanics of an explosion

Case study-modeling and simulation of ballistic armor

Theme: modeling and simulation of high-performance materials in industry

Case study-modeling and simulation of next-generation turbine blades

Case study-modeling and simulation of functionalized material design

Case study-modeling and simulation of a multifunctional fluid

Theme: modeling and simulation of biological systems

Case study-modeling and simulation of bio-flow and disease progression

Case study-modeling and simulation of electrical trauma

Case study-modeling and simulation of the biomechanical movement of an athlete

Theme: modeling and simulation of advanced manufacturing

Case study-modeling and simulation of the design of 3D printing materials

Case study-modeling and simulation of laser-processing of materials

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Ananthasagar, Hasanparthy, Warangal -506371, Telangana. Website: www.sritw.org

Phoneno: 0870-2818302. Email: principal@sritw.org

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Case study-modeling and simulation of a robotic 3D printer

Course Outcomes

After completion of the course students will be able to learn

- Coverage of the modeling and simulation of modern engineering systems and their synthesis.
- The goal of this course is to provide students with the general multipurpose tools needed for successful industrial research.
- The course will help students develop intuition about modeling physical systems and strengths and weaknesses of a variety of numerical methods.



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COURSE OBJECTIVES:

- To develop relevant skills in candidates related to computer application, office management practices, and office automation techniques.
- to improve efficiency, accuracy, and speed in business processes, ultimately leading to increased productivity and reduced costs, time and control all the processes of the business in real time
- To familiarize the students in preparation of documents and presentations with office automation tools.
- To enable the students in crafting professional word documents, excel spread sheets, power point presentations using the Microsoft suite of office tools.

COURSE CO-ORDINATOR:

Ms.M. Swetha

Asst.Prof,CSE

For registrations contact: 9951499674

PRE-REQUISITES:

1. It is essential to have Interpersonal Skills
2. Students should have knowledge about Design Software.
3. They should have interpersonal skills.
4. They should have knowledge of Front-End Programming Languages.
5. It is also needed to know about time management.

Course Start Date: 02-09-2020

Course End Date: 02-11-2020

Venue: Online

Timings: 3:10PM-4:00PM

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**A Course
on**

WEB DESIGNING AND OFFICE AUTOMATION

**Organized
by**

**Department of Computer
Science and Engineering**



COURSE INSTRUCTORS:

1. Mr.N.Venkatesh

Asst. Prof,CSE

2. Ms.Ch.Padmaja

Asst. Prof,ECE



SUMATHI REDDY

INSTITUTE OF TECHNOLOGY FOR WOMEN

L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

WEB DESIGNING & OFFICE AUTOMATION

Date: 02-09-2020 to 02-11-2020

Course Content

- Introduction to Internet: Definition and Evolution of Internet,
- Hardware and Software requirements of Internet, Working of Internet, Major Features of Internet,
- Accessing the Internet, Search Engines
- Major Application Areas of Internet
- Introduction to Internet protocols: Concepts of TCP/IP Internet addressing
- How to get into Internet, Modem, Browsers and Internet Service Provisions.
- Internet Services: File Transfer protocol, Opening a Connection with a FTP Server, Transfer Files to My Computer, Remote Login, bulletin Boards and News Groups.
- E-Mail: Objectives of e-mail, Logging into an E-Mail Attachments of e-mail, User names and Passwords, Internet Chatting, surfing through the Internet.
- World Wide Web: World Wide Web (WWW)- Domain Software, The Client side and the Server Side, Creating and Locating Information on the Web Search Engines, URL's
- Introduction to Windows: Windows Fundamental Features of Windows, Types of Windows and Elements of Windows, Customizing Windows, windows working in windows, working with files and folders, Icons, recycle Bin, control Panel, Windows Explorer.
- MS-Word: Introduction to MS-Word, standard Toolbar Word Warp, Text formatting, Formatting paragraphs, Applying effects to text Applying animation to text.
- MS-Excel: Introduction to MS-Excel, working with toolbars, Formatting Formulas, Data management, Graphics and Chart, Macros and other Additional functions.
- MS-Power Point: Introduction, Power Point Slide, Creating a Slide –Show, Adding Graphics, Formatting, Customizing and printing slides.
- Ms-Access: Introduction, Understanding database, creating database and tables through Wizard.
- BASICS OF COMPUTER :Introduction to Computer, Memory, CPU, I/O Device, Computer Network
- OPERATING SYSTEMS MS-WINDOWS :Operating System, Windows Desk top – GUI, Desktop icons and their functions Dialog Boxes, Task Bar, Parts of Windows, key board short keys of hotkeys

Rijan

Principal

Ananthasagar, Hasanparthy, Warangal -506371, Telangana. Website: www.sritw.org

Phoneno: 0870-2818302. Email: principal@sritw.org.

Ananthasagar (V), Hasanparthy (M)

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- Working with Notepad & Word Pad
- Creating , Editing, Saving and printing text documents Font and Paragraph formatting Simple character formatting Inserting tables, Smart art, Page breaks ,Using lists and styles, Working with images,Using,Spelling and Grammar check, Understanding document properties ,Mail merge
- OFFICE APPLICATIONS-II, MS-EXCEL
- Spreadsheet Basics, Creating, editing, saving and printing spreadsheet, Working with functions & formulas ,Modifying worksheets with color& auto formats, Graphically representing data: Charts & Graphs ,Speeding data entry: Using Data Forms ,Analyzing Data: Data Menu, Subtotal, Filtering Data, Formatting work-sheets ,Securing & Protecting Spreadsheets
- OFFICE APPLICATION-III MS OFFICE: MS-ACCESS
- MS-Access: Introduction, Planning a Database ,Access Screen ,Creating a New Database Creating Tables, Working with Forms, Creating queries, Finding Information in Databases, Types of Reports, Printing & Print Preview ,Importing data from other database viz, MS Excel etc
- MS-OFFICE: MS-POWERPOINT Opening, Viewing, Creating and printing slides Applying auto layouts Adding custom animation Using slide transitions graphically representing data: Charts & Graphs Creating Professional Slide for Presentation.

Course Outcomes

After completion of the course students will be able to learn

- Code a handful of useful HTML&CSS examples
- Build semantic, HTML&CSS web pages
- Write basic scripts
- Use Names, Objects and Methods
- Add interactivity to a web page
- Create Dynamic Web Pages using Java Script in HTML Forms



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A Course on **Web Services**

Course Objectives:

- To Understand Web Services and implementation model for SOA.
- To Understand the SOA, its Principles and Benefits.
- To understand XML concepts to understand paradigms needed for testing Web Services.
- To explore different Test Strategies for SOA-based applications.
- To identify and select the appropriate framework components in creation of web service solutions
- To learn to write, test and debug web pages using HTML tags and JavaScript Language programming concepts and techniques.
- To develop the ability to logically plan and develop web pages.

Course Coordinator:

Ms.T.Sravanthi

Asst.Prof,CSE

Email:tsravanthi29@gmail.com

Organized by the department of Computer Science and Engineering



Course Start Date: 02-09-2020

Course End Date:02-11-2020

ForRegistrationscontact:9676165411

Venue: Online

Timings: 3:10PM-4:00PM

Course Instructors:

1. Ms.Y.Sharvani

Asst. Prof, ECE

2. Mr.Y.Chanti

Asst. Prof, CSE

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WEB SERVICES

Date: 02-09-2020 to 02-11-2020

Course Content

XML

Introduction to XML

- Evolution of XML
- Need of xml
- Workflow of xml

Fundamentals of XML

- Xml Declarations
- Elements
- Comments
- Processing instructions
- Doctype declarations
- Entities
- Namespaces
- Realtime Examples with scenarios

Document Type Definition's (DTD's)

- Validation
- Element & Attributes
- Entities
- Realtime Examples with scenarios

Xml Schema Definition (XSD)

- About XSD
- Difference between XSD & DTD
- Schema Declarations
- Data types
- Element declarations
- Complex type declarations
- Complex Content
- Simple Type Declarations
- Real-time Examples with scenarios

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About Parser

- Need of parser
- Types of parsers
- Parsing approaches
- Real-time Examples with scenarios

Schema Validation

- About schema validation api's
- JAXP DOM Parser
- JAXP SAX Parser
- JAXP Validation API
- Realtime Examples with scenarios

About XPath

- Need of XPath
- XPath Expressions
- Difference between XPath & DOM API
- JAXP XPath API
- JDOM XPath API
- Realtime Examples with scenarios
- About XSLT
- XSLT vs XML
- XSLT basics
- JAXP Transformation API
- Realtime Examples with scenarios

XML Object Bindings

- The need of object binding
- JAXB API(Covers 2.0)
- About Marshalling & Unmarshalling
- Binding with XML beans
- Real-time Examples with scenarios

Web Services

About Web Services

- Introduction
- SOA Architecture Principles
- Types of web services

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About REST Web Service

- Introduction
- Rest principles & Terminology
- About JAX-RS API
- Annotation Inheritance with REST
- REST Client Design Scenarios
- REST Service Endpoint & URL Design Scenarios
- Realtime Examples with scenarios

About SOAP Web Service

- Introduction
- Anatomy of SOAP
- Structure of SOAP
- SOAP with HTTP
- SOAP-1.2 Features

About SAAJ

- Introduction
- Creating a SOAP Message
- Retrieving SOAP Message
- Sending SOAP Message
- Adding attachments to SOAP Message

About WSDL

- Introduction
- WSDL Structure (Covers 2.0)
- Message Exchanging Design Patterns & Modes

Course Outcomes

After completion of the course students will be able to learn

- To Understand Web Services and implementation model for SOA
- To Understand the SOA, its Principles and Benefits
- To Understand XML concepts
- To Understand paradigms needed for testing Web Services
- To explore different Test Strategies for SOA-based applications



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No. SRITW/Prin/2021

Date: 24-04-2021

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names with the respective course coordinator. A detailed brochure regarding the courses is forwarded to their respective mail ids.

Criteria for Certification: Attendance $\geq 75\%$ and marks secured $\geq 60\%$.

: Important dates:

Registrations opening date: 03-05-2021

Registrations closing date: 08-05-2021

Course start date: 12-05-2021

Course end date: 30-06-2021

Courses offered:

1. Cyber Security
2. Business Starups & Incubation
3. Source Code Management using Git & Git hub
4. PCB Designing

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HOD (CSE, ECE, EEE, H&SC)
Administrative Officer

In-charge, Exam Branch

Library

Notice Board

To be read in classrooms

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A Course on **CYBER SECURITY**

Organized by the Department of Electronics and Communication Engineering

Course Objectives:

- To Create Solutions in Incident Handling.
- Implement cyber security best practices and risk management.
- To communicate in a written and professional manner to strategize.
- To identify and implement legal ramifications.
- To integrate network monitoring and present real time solutions.
- To understand software design and secure practices.
- To understand cyber security risk in an ethical, social and professional manner.

Course Coordinator:

Mr.V.Srinivas

Asst.Prof, CSE

For Registratiions Contact : 9849815464



Course Instructors:

Ms.E.Soumya

Asst. Prof, CSE

Dr.M.Gopal

Asst. Prof. ECE

Pre-requisites:

1. It is essential for the candidate to have a sound knowledge of information systems and networks.
2. They should also have hands-on technical experiences as well and be updated with the latest cyber security training propaganda.
3. Have the fundamentals of cyber security

Course Start Date: 12-05-2021

Course End Date: 30-06-2021

Venue: Online

Timings: 3:10PM-4:00PM

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CYBER SECURITY

Date: 12-05-2021 to 30-06-2021

Course Content:

- Introduction to Cyber Space
- History of Internet
- Cyber Crime
- Information Security
- Computer Ethics and Security Policies
- Choosing the Best Browser according to the requirement and email security
- Guidelines to choose web browsers
- Securing web browser
- Antivirus
- Email security
- Guidelines for secure password and wi-fi security
- Guidelines for setting up a Secure password
- Two-steps authentication
- Password Manager
- Wi-Fi Security
- Guidelines for social media and basic Windows security
- Guidelines for social media security
- Tips and best practices for safer Social Networking
- Basic Security for Windows
- User Account Password
- Smartphone security guidelines
- Introduction to mobile phones
- Smartphone Security Android Security
- IOS Security
- Cyber Security Initiatives in India
- Counter Cyber Security Initiatives in India
- Cyber Security Exercise
- Cyber Security Incident Handling
- Cyber Security Assurance
- Online Banking, Credit Card and UPI Security
- Online Banking Security
- Mobile Banking Security
- Security of Debit and Credit Card

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- UPI Security
- Micro ATM, e-wallet and POS Security
- Security of Micro ATMs
- e-wallet Security Guidelines
- Security Guidelines for Point of Sales(POS)
- Social Engineering
- Types of Social Engineering
- How Cyber Criminal Works
- How to prevent for being a victim of Cyber Crime
- Cyber Security Threat Landscape and Techniques
- Cyber Security Threat Landscape
- Emerging Cyber Security Threats
- Cyber Security Techniques
- IT Security Act and Misc. Topics
- IT Act Hackers-Attacker-Countermeasures
- Web Application Security
- Digital Infrastructure Security
- Defensive Programming
- Information Destroying and Recovery Tools
- Recovering from Information Loss
- Destroying Sensitive Information
- CCleaner for Windows

Course Outcomes

After completion of the course students will be able to learn

- Analyze and evaluate the cyber security needs of an organization.
- Conduct a cyber security risk assessment.
- Measure the performance and troubleshoot cyber security systems. Implement cyber security solutions



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A Course on *Business Startups and Incubation*

Organized by the department of Computer Science and Engineering

Course Objectives:

- To know a valuable resource for startups seeking to overcome business challenges.
- To provide startups with the necessary support, resources, and guidance to help them grow and succeed.
- To enhance the chances of success for innovative startups and facilitate the entrepreneurial process.
- To know the various types of incubation services, and the phases that make up the development of business incubation.
- To produce a business plan and presentation for their sustainable journalistic enterprises. The plans will include considerable research.

Course Coordinator:

Ms.Shabana Mohammed
Asst.Prof,CSE

For registrations Contact no: **8905146492**



Course Instructors:

1. Mr.A.Mahesh

Asst. Prof. CSE

2. Mr.E.Kumaraswamy

Asst. Prof. ECE

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Ananthasagar (V), Hasanparthy (M)

WABANGAL - 528 271 (TS)

Course Start Date:12-05-2021
Course End Date:30-06-2021

Venue :Online

Timings :3:10PM-4:00PM



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INSTITUTE OF TECHNOLOGY FOR WOMEN

L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

BUSINESS STARTUPS & INCUBATION

DATE: 12-05-2021 TO 30-06-2021

Course Content

- Introduction to Entrepreneurship,
- What is Entrepreneurship GDC Program
- Hand holding for Entrepreneurship GDC start-up stories
- Entrepreneurship Types, Team Building
- Innovation and Entrepreneurship,
- Solar Oven case-study ,Design to Entrepreneurship
- Bio- Med Innovation and Entrepreneurship
- New-age Entrepreneurship
- Business-Model canvas
- Technology led Entrepreneurship
- Entrepreneurship as Academic Program -case study
- Creativity and Generating Product Ideas, From Idea to Proof of Concept, Network Entrepreneurship
- Learning from examples Start-up PITCHES
- Entrepreneurial ventures that disrupt the landscape in some way, creating platforms or executing on new models. This can include companies that execute on new business models as well as platforms that would be used by many companies.
- So-called free-agent nation businesses that follow existing templates (e.g., a hyperlocal, niche or hyper interest site).
- Products or a strategy for legacy companies that a student or a professional sent to the school takes to a company to create a new product or service or to execute a new strategy.
- Startup and Ecosystem Principles
- Business Incubation Definitions and Principles
- Business Incubator Models
- Incubator Administration and Management
- Incubation, Pre-incubation and Acceleration Programs
- Managing the Programs
- Marketing and Stakeholder Management
- Mentoring and Finance for Startups
- Monitoring & Evaluation

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Affiliated to JNTUH - Approved by AICTE

Course Outcomes

After completion of the course students will be able to learn

- The course 'Understanding Incubation and Entrepreneurship' uncovers the basics of what it takes to develop an entrepreneurial mindset thereby encouraging the journey of transformation to convert an idea or a solution into a business.
- The problem statement, builds teams, understand the rigorous customer discovery process and finally learn to use the Lean Canvas Model.
- Know about start ups and build eco systems
- Monitoring & Evaluation



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WARANGAL - 506 371 (TS)

Course Objectives:

- The objective of this course is to provide IT developers with the right skills and competencies to create, manage and share source code needed in different projects.
- To learn how to manage and update files with Git
- To know how to revert/reset project to previous versions.
- To learn how to collaborate and share projects using Git and Github.
- To learn basic file management in Git `bash` environment.
- To learn GitHub and how to use and manage the web based Git repository.

Course Co-ordinator:

Ms.S.Shwetha
Asst.Prof,CSE

For registrations contact no: 8437182518

Pre-requisites:

- students should either have a background in coding or a plan to learn coding alongside their Git training.
- There is no technical prerequisite in learning Git but coding knowledge is essential.
- To use Git they need to have a project that they want to version control.
- If it is a new project, then they need to create a new project folder and then navigate into that project folder in the terminal.

Course Start Date: 12-05-2021

Course End Date: 30-06-2021

Venue: Online

Timings: 3:10PM-4:00PM

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A Course on Source code management using Git & Github Organized

by

**Department of
Computer Science and
Engineering**



Course Instructor

1. Ms.R.Netravathi

Asst. Prof,CSE

2. Mr.K.Srinivas

Asst. Prof,ECE



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SOURCE CODE MANAGEMENT USING GIT & GIT HUB

Date: 12-05-2021 to 30-06-2021

Course Content:

- Introduction: Git & GitHub.
- Basic Git Workflow. An introduction to Git and a few of its core features.
- Important Git Operations. ...
- Introduction to GitHub. ...
- GitHub & Markdown. ...
- Git Branching. ...
- Git Teamwork.
- Version Control System Basics
- Git Introduction
- Git and GitHub Practical
- Git Branching
- Git Branching Workflows
- Capstone Project
- Difference between GIT & GIT Hub
- How to start using Git and Git hub
- Connect your GitHub account to your Git account.
- Create and edit your code files locally
- Create a repository on GitHub
- Common Git Commands
- How to Customize Your GitHub Profile
- Basic GIT work flow
- Important GIT operations
- GIT Branching
- GIT Teamwork
- Developing of Basic projects
- Best Practices for GitHub Repositories
- Collaborating with the GitHub Community
- GitHub Features: Issues, CLI, Actions
- Review: Learn Git & GitHub

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Course Outcomes

After completion of the course students will be able to learn

- Git is used across the world to help developers keep track of changes while working on different parts of the same project.
- GitHub is a web app that can integrate with Git.
- Together, users can host, organize, explore, and collaborate on code with teams and the wider developer community.
- This course gives you an introduction to Git and GitHub — and how they work together as you build projects.



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A course on **PCB DESIGNING**

ORGANIZED BY THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Start Date: 12-05-2021

Course End Date: 30-06-2021

For Registrations contact: 9959875482

Venue: Online

Timings: 3:10PM-4:00PM

Course Objectives:

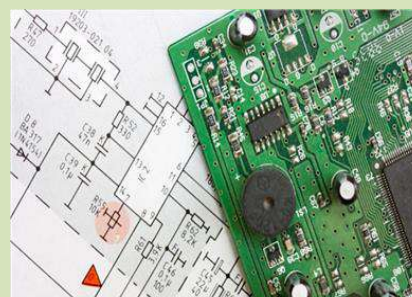
1. To design and fabricate PCB for prototyping as well as in Industrial Production environment.
2. It will help students to innovate faster with electronics technology.
3. PCB (Printed Circuit Board) designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade.
4. Identifying Electronic Components Symbols & Footprints
5. Constructing your Component libraries & use them effectively
6. Schematic creation & interpretation
7. Effective use of design rules & interfacing between schematic & PCB.

Course Coordinator:

Dr.G.Rajitha

Asst. Prof, H&Sc

For Registrations contact: 9959875482



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Course Instructors:

1. Mr.D. Koteswar Rao

Asst. Prof, ECE

2. Ms.Y. Sharvani

Asst. Prof, ECE



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Affiliated to JNTUH - Approved by AICTE

PCB Designing

Date: 12-05-2021 to 30-06-2021

Course Content

Introduction to PCB designing concepts Introduction & Brief History

What is PCB, Difference between PWB and PCB?

Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer, PCB Materials, Introduction to Electronic design Automation (EDA), Brief History of EDA, Latest Trends in Market, How it helps and why it requires, Different EDA tools

Introduction to SPICE and PSpice Environment

Introduction and Working of PROTEUS

Component introduction and their categories Types of Components

Active Components, Diode, Transistor, MOSFET, LED, SCR, Integrated Circuits (ICs)

Passive Components, Resistor, Capacitor, Inductor, Transformer, Speaker/Buzzer Component

Package Types, through-hole Packages

Axial lead, Radial Lead, Single Inline Package (SIP), Dual Inline Package (DIP), Transistor Outline (TO), Pin Grid Array (PGA), Through Hole Packages, Metal Electrode Face (MELF) Leadless Chip Carrier (LCC), Small Outline Integrated Circuit (SOIC), Quad Flat Pack (QFP) and Thin QFP (TQFP), Ball Grid Array (BGA), Plastic Leaded Chip Carrier (PLCC)

Introduction to Development Tools

Introduction to PCB Design using OrCAD tool, Introduction to PCB Design using PROTEUS tool

Detailed description and practical of PCB designing PCB Designing Flow Chart

Schematic Entry, Net listing, PCB Layout Designing, Prototype Designing o Design Rule Check (DRC) o Design for Manufacturing (DFM), PCB Making o Printing o Etching o Drilling, Assembly of components Description of PCB Layers, Electrical Layers o Top Layer o Mid Layer o Bottom Layer, Mechanical Layers o Board Outlines and Cutouts o Drill Details, Documentation Layers o Components Outlines o Reference Designation o Text Keywords & Their Description

Footprint, Pad stacks, Vias, Tracks, Color of Layers, PCB Track Size Calculation Formula PCB Materials, Standard FR-4 Epoxy

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WARANGAL - 506 371 (TS)

Ananthasagar, Hasanparthy, Warangal -506371, Telangana. Website: www.sritw.org

Phoneno: 0870-2818302. Email: principal@sritw.org.



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Course Content: After the course students can able to learn

- Understand basics of PCB designing.
- Apply advance techniques, skills and modern tools for designing and fabrication of PCBs.
- Apply the knowledge and techniques to fabricate Multilayer, SMT and HDI PCB.
- Understand a single layer and multilayer PCB
- Create and fabricate a PCB
- Evaluate and test a PCB



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L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

No. SRITW/Prin/2019

Date: 21-09-2019

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names with the respective course coordinator. A detailed brochure regarding the courses is available in the notice board.

Criteria for Certification: Attendance $\geq 75\%$ and marks secured $\geq 70\%$.

: Imp dates:

Registrations opening date: 24-09-2019

Registrations closing date: 01-10-2019

Course start date: 19-10-2019

Course end date: 22-11-2019

Courses offered:

1. Computer fundamentals
2. Embedded Systems
3. Raspberry PI & other Peripheral Systems
4. Migration Techniques in Cloud Computing

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In-charge, Exam Branch

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To be read in classrooms

Course objectives:

- An introduction to the fundamentals of hardware, software and programming.
- Understanding the concept of input and output devices of Computers.
- Learn classification of computers, the functional units and how they process information and how individual computers interact with other computing systems and devices.
- Understand an operating system and its working, and solve common problems related to operating systems.
- Learn basics of word processing, spreadsheet and power point Presentation.

Course Co-ordinator:

Mr.K.Ranganath

Asst. Prof, CSE

For Registrations Contact : 8374902324

Course start date: 19-10-2019

Course end date: 22-11-2019

Venue:

Computer lab 3(104) & lab 5(109)

Timings: 3:10PM-4:00PM



A course

on

COMPUTER FUNDAMENTALS

Organized

by

Department of Computer Science and
Engineering



Course Instructors:

1. Mr.G.Ranadheer Reddy

Asst.Prof, CSE

2. Dr.M.Gopal

Asst.Prof, ECE

A handwritten signature in green ink, which appears to read "Rajan".

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Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (TS)



COMPUTER FUNDAMENTALS

Date: 19-10-2019 to 22-11-2019

Course Content

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
- Types of Computers: Analogue, Digital, Hybrid
- General and Special Purpose Computers
- Generation of Computers.

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
- **Storage Devices:** Storage Fundamentals, Primary and Secondary Storage, Data Storage and Retrieval Methods ,Sequential, Direct & Indexed Sequential, Tape Storage and Retrieval Methods Tape storage Devices, Characteristics and limitations.
- **Introduction to DOS:** History and versions of DOS.
- Fundamentals of DOS: Physical Structure of the Disk, Compatibility of drives
Disks & DOS versions, Preparing Disks for use, Device Names
- Getting Started with DOS: Booting Process (DOS, Windows, Unix), System Files
and Command.com, Internal DOS Files & Directories
- Elementary External DOS Commands, Creating a Batch Files, Additional Commands.
- **Microsoft Windows:** Operating system-Definition & functions, basics of Windows.
Basic components of windows, icons, types of icons, taskbar, activating windows, using desktop, title bar

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- Running applications, exploring computer, managing files and folders, copying and moving files and folders.
- Control panel display properties, adding and removing software and hardware, setting date and time, screen saver and appearance. Using windows accessories.

Course Outcomes

After completion of the course students will be able to learn

- Converse in basic computer terminology
- Formulate opinions about the impact of computers on society
- Possess the knowledge of basic hardware peripherals
- Know and use different number systems and the basics of programming
- Solve basic computational problems with C language
- Students will develop skills for productivity software and OS
- Students will develop interests in using computers for professional work
- Students will be able to discover their interests in programming



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A Course on EMBEDDED SYSTEMS

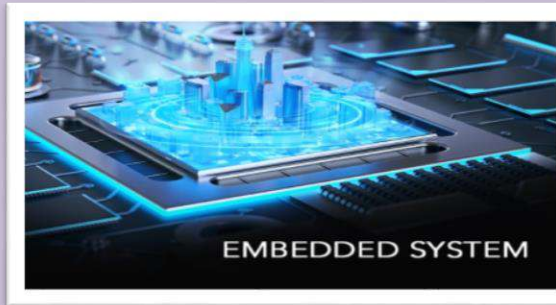
Organized by the Department of Electronics and Communication Engineering

Course Objectives:

- To introduce the Building Blocks of Embedded System.
- To Introduce Bus Communication in processors, Input/output interfacing.
- To impart knowledge in various processor scheduling algorithms.
- To introduce Basics of Real time operating system and example tutorials to discuss on one real time operating system tool.
- To understand embedded-system programming and apply that knowledge to design and develop embedded solutions.
- The course will introduce various interfacing techniques for popular input devices including sensors, output devices and communication protocols

Course Co-ordinator:

Mr.Ch.Siddhardha
Asst. Prof. CSE Dept



Venue:

Lecture Hall1: 117
Lecture Hall2: 118

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For registration contact: **9885378822**

Course start date: 19-10-2019

Course end date: 22-11-2019

Course Instructors:

1.Mr. A.Mahesh

Asst. Prof, CSE

2. Mr.D. Koteswar Rao

Asst. Prof, ECE

Timings: 3:10PM-4:00PM



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EMBEDDED SYSTEMS

Date: 19-10-2019 to 22-11-2019

Course Content

- Introduction to Embedded Systems and Computer Systems Terminology, Modular approach to Embedded System Design using Six-Box model: Input devices, output devices, embedded computer, communication block, host and storage elements and power supply.
- Microcontroller Based Embedded System Design, salient Features of Modern, Microcontrollers, elements of Microcontroller Ecosystem and their significance.
- Design of Power Supply for Embedded Systems, Linear Regulator Topologies, switching Power Supply Topologies. Power Supply Design Considerations for Embedded Systems.
- Introduction to MSP430 Microcontroller: MSP430 CPU Architecture, Programming Methods for MSP430, Introduction to Lunchbox Platform.
- **Fundamentals of Physical Interfacing:** Connecting Input Devices, switches, Keyboard and Output devices, LEDs, Seven Segment Displays (SSD) Advanced Physical Interfacing Driving load - high side, low side and H-bridge, multiplexing displays including Shaft encoder.
- Programming the MSP430, Basics of version control system – Git, Installing and using Code Composer Studio (CCS), Introduction to Embedded Interfacing LEDs and Switches with MSP430 using Digital Input and Output.
- MSP430 Clock and Reset System, MSP430 Clock sources and distribution, Types of Reset sources. Handling Interrupts in MSP430, Writing efficient Interrupt Service Routine (ISR).
- Interfacing Seven Segment Displays and Liquid Crystal Displays with MSP430. Low Power Modes in MSP430, Introduction to MSP430 Timer Module and its Modes of Operation.
- Generating Pulse Width Modulation (PWM) using Timer Capture Mode, DC operation in MSP430, Interfacing analog inputs. Generating random numbers using LFSR and other methods. Adding DAC to MSP430, custom Waveform generation using MSP430.
- Timer Capture Modes, Measuring frequency and time period of external signals and events.
- **Serial Communication Protocols:** UART, SPI, I2C, Interfacing Universal Serial Communication Interface (USCI) Module of the MSP430 for UART Communication, Advanced Coding Exercises based on Interrupt driven Programming, Building an Electronics Project.
- Circuit Prototyping techniques, Designing Single Purpose Computers using Finite State Machine with Data path (FSMD) approach, MSP430 Based Project Design and Implementation. Recap of Course Coverage.

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- **Interfacing of Motors:** Introduction to Motors, Types of Motors used in Embedded System, Programming & Controlling of motors in Embedded Systems, Timers & Counters Programming, Introduction to Timers & Counters, Difference between Timer and Counter, Description of SFR associated with Timers & Counters, Programming of Timers & Counters Serial Communication Programming, Introduction to Serial Communication,
- Types of Serial Communication, Description of SFR associated with Serial Communication
- Programming of UART, Interfacing Of ADC
- Introduction to ADC, Programming of ADC
- Sensor Interfacing: Introduction to sensing devices, Interfacing of IR Sensors, Interfacing of Temperature Sensor.
- Embedded Networking: I2C Bus Standard, Bluetooth, Zigbee, USB, UAR
- Linux Fundamentals & Device Driver Programming: Linux Fundamentals, Linux Command, Editors.
- Introduction to Device Driver: The Role of Device Driver, Kernel Module Vs. Application, Types of Device Driver, Character Driver, Block Driver & Network Driver

Course Outcomes

After completion of the course students will be able to learn

- About the embedded system design using a building block approach, which allows one to visualize the requirement of an embedded system and then to design it efficiently.
- The course will teach embedded system design using a microcontroller, namely Texas Instruments MSP430 low power microcontroller.
- The course will introduce various interfacing techniques for popular input devices including sensors, output devices and communication protocols.
- It will teach power supply design for embedded applications. It will also teach effective embedded programming techniques in C and how to maintain code using GIT.



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A course on
Raspberry Pi & other Peripheral Systems

Organized by the Department of Computer Science and Engineering

Course start date: 19-10-2019

Course end date: 22-11-2019

Venue:

Lecture Hall1: 201

Lecture Hall2: 202

Timings:3:10PM-4:00PM

Course Instructors:

1.Mr.R.Shasi Kumar Reddy

Asst. Prof, ECE

2. Ms.P.Supraja

Asst. Prof, CSE

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Course Objectives:

- To connect your Raspberry Pi to the cloud and understand how to use it in data analysis
- To understand the basics of the Linux OS used on the Pi.
- To apply creative thinking skills in the design of practical solutions to specific case studies and projects.
- To create applications that makes use of electrical, computer and/or microcontroller hardware, sensor interfaces, and mechanical components.
- To know the importance of different peripheral devices and their interfacing to rpi board.
- To write python programs for rpi for various applications.

Course Co-ordinator:

Mrs. T.Sruthi

Asst. Prof, CSE

For registrationsContact : 6302552543



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RASPBERRY PI & OTHER PHERIPHERAL SYSTEMS

Date: 19-10-2019 to 22-11-2019

Course Content:

Overview of IoT: Understanding IoT fundamentals, IOT Architecture, protocols, Various Platforms for IoT, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies, Getting started with Raspberry Pi,

Overview of Raspberry Pi: Introduction to Raspberry Pi, Comparison of various Rpi Models, Understanding SoC architecture and SoCs used in Raspberry Pi, Pin Description of Raspberry Pi , On-board components of Rpi.

Booting up RPi: operating System and Linux Commands, Linux- Introduction, Architecture, File System, Raspbian Operating System - Introduction, Tools like Leaf pad Editor, Installing Raspbian on Pi, First boot and Basic Configuration of Pi, Popular Linux Commands.

RPi using Python and Sensing Data using Python: Introduction to Python vs Other Languages, Applications of Python.

Understanding Python Interpreted Languages: Variables, Keywords, Operators and Operands, Data Types in Python, Importing Libraries, Flow Control, Conditional Statement, Loops.

Sensors Interfacing: Temperature and Humidity Sensor (DHT11), Motion Sensor (PIR), Obstacle detection using Ultrasonic sensor, etc., Communicating using RPi- GSM interfacing, Accessing on-board Wi-Fi, Connecting Database with RPi

RPi with C Language: C Basics- compiled language, C Concepts- data types, variables, conditional statement, loops, Library installation, Compiling C programs, Using Wiring Pi for GPIO Programming, Interfacing Rpi using C

IoT Design using Raspberry Pi: IoT Applications based on Pi, LAMP Web-server, GPIO Control over Web Browser, and Creating Custom Web Page for LAMP, Communicating data using on-board module, Home automation using Pi, Node-RED, MQTT Protocol, Using Node-RED Visual Editor on Rpi

Exploring the Linux OS: Python Programming of the Pi, Hello World, GUI Game, Accessing the Internet, Playing Audio, Controlling peripherals, Controlling LEDs, Getting switch and sensor feedback, Detecting light

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Course Outcomes

After completion of the course students will be able to learn

- How to setup and operate the Raspberry Pi;
- understand the basics of the Linux OS used on the Pi;
- program the Pi using the programming language Python to:
- access a network;
- play audio;
- control light emitting diodes (LEDs);
- get feedback from a switch;
- get feedback from a sensor;
- apply creative thinking skills in the design of practical solutions to specific case studies and projects
- Create applications that make use of electrical, computer and/or microcontroller hardware, sensor interfaces, and mechanical components.



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A Course on **MIGRATION TECHNIQUES IN CLOUD COMPUTING**

Organized by the Department of Computer Science and Engineering

❖ Course Objectives:

- Understand the idea behind cloud computing services , host web services, store and backup data, host and stream media & many more.
- About Cloud Infrastructures
- About Amazon Web Services
- About Cloud Security
- This course gives students an insight into the basics of cloud computing along with virtualization

❖ Course Co-coordinator:

Mr.T.Ravi kumar
Asst. Prof, CSE

For Registrations contact:8328566285



❖ Course Instructors:

1.Mr.A.Mahesh

Asst. Prof, CSE

2.Mr.K.Ravi Kiran

Asst. Prof, ECE

Course Start Date: 19-10-2019

Course End Date: 22-11-2019

❖ Venue:

Lecture Hall1: 212

Lecture Hall2: 213

Timings:3:10PM-4:00PM



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Affiliated to JNTUH - Approved by AICTE

MIGRATION TECHNIQUES IN CLOUD COMPUTING

Date: 19-10-2019 to 22-11-2019

Course Content

- Basic Concepts of Cloud Computing:
- Computer Network Basics, Concepts of Distributed Systems
- Concepts of Cloud Computing and its Necessity
- Cloud Service Providers in use and their Significance.
- Cloud Infrastructures: Cloud Pros and Cons, Cloud Delivery Models
- Cloud Deployment Models
- Cloud Storage Management: Concept of Virtualization and Load Balancing
- Overview on Virtualization used for Enterprise Solutions
- Key Challenges in managing Information
- Identifying the problems of scale and management in big data.
- Building Cloud Networks: Designing and Implementing a Data Center-Based Cloud Installing Open Source Cloud service. Amazon Web Services (AWS)
- Google Cloud Platform
- Cloud Security
- Introduction of AWS services
- Cloud adoption framework for AWS
- 6R migration framework
- Well architecture framework
- Database migration
- Migrating web application
- Application discovery
- Server migration
- Migration Planning and Discovery
- Cloud Migration Frameworks, Optimizing Cloud Systems

Course Outcomes: After completion of the course students will be able to learn

- Understand the idea behind cloud computing services i.e. host web services, store and backup data, host and stream media & many more.
- About Cloud Infrastructures
- About Amazon Web Services
- About Cloud Security



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No. SRITW/Prin/2020

Date: 08-01-2020

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names with the respective course coordinator. A detailed brochure regarding the courses is available in the notice board.

Criteria for Certification Attendance $\geq 75\%$ and marks secured $\geq 70\%$.

: Imp dates:

Registrations opening date: 10-01-2020

Registrations closing date: 25-01-2020

Course start date: 27-01-2020

Course end date: 02-03-2020

Courses offered:

1. Web Services
2. PCB Designing
3. Communication Skills& Human Values
4. Advanced Software Testing

Copy to

HOD (CSE, ECE, EEE, H&SC)

Administrative Officer

In-charge, Exam Branch

Library

Notice Board

To be read in classrooms

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Course objectives:

- To Understand Web Services and implementation model for SOA .
- To Understand the SOA, its Principles and Benefits
- To Understand XML concepts
- To Understand paradigms needed for testing Web Services
- To explore different Test Strategies for SOA-based applications
- Understand how Web services related to Service Oriented Architecture.
- Become familiar with the pillar Web service specifications for XML, XML Schema, SOAP, WSDL and UDDI.
- Pick up design patterns and best practices for Web service interface documents.

Course Co-ordinator:

Mr.M.RanjithKumar
Asst.Prof, CSE
Contact no: 9441939348

Pre-requisites:

- It does not require the readers to have a prior knowledge of any technology in particular
- However it would certainly make them comfortable if they have a basic understanding of XML, HTTP, TCP/IP concepts.

Course start date: 27-01-2020

Course end date: 02-03-2020

Venue:

Computer Lab 3(104)

Computer Lab 5(109)

Timings: 3:10PM-4:00PM

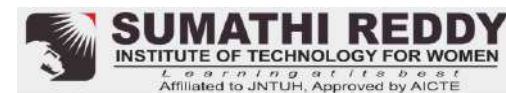
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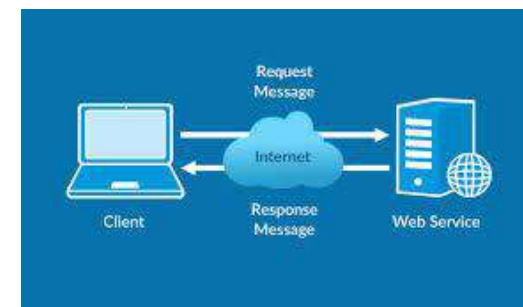


**A Course
On**

WEB SERVICES

**Organized
by**

**Department of Computer
Science and Engineering**



Course Instructors:

1.Mr.T.Chandraprakash

Asst. Prof, ECE

2.Mr.Mannanuddin Khaja

Asst.Prof, CSE



WEB SERVICES

Date: 27-01-2020 to 02-03-2020

Course Content

Introduction to XML

- Evolution of XML
- Need of xml
- Workflow of xml

Fundamentals of XML

- Xml Declarations
- Elements
- Comments
- Processing instructions
- Doctype declarations
- Entities
- Namespaces
- Realtime Examples with scenarios

Document Type Definition's (DTD's)

- Validation
- Element & Attributes
- Entities
- Realtime Examples with scenarios

Xml Schema Definition(XSD)

- About XSD
- Difference between XSD & DTD
- Schema Declarations
- Data types
- Element declarations
- Complex type declarations
- Complex Content
- Simple Type Declarations

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- Real-time Examples with scenarios

About Parser

- Need of parser
- Types of parsers
- Parsing approaches
- Real-time Examples with scenarios

Schema Validation

- About schema validation api's
- JAXP DOM Parser
- JAXP SAX Parser
- JAXP Validation API
- Realtime Examples with scenarios

About XPath

- Need of XPath
- XPath Expressions
- Difference between XPath & DOM API
- JAXP XPath API
- JDOM XPath API
- Realtime Examples with scenarios
- About XSLT
- XSLT vs XML
- XSLT basics
- JAXP Transformation API
- Realtime Examples with scenarios

XML Object Bindings

- The need of object binding
- JAXB API(Covers 2.0)
- About Marshalling & Unmarshalling
- Binding with XML beans
- Real-time Examples with scenarios

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A Course on PCB DESIGNING

Organized by
Department of Electronics and Communication Engineering

Course Objectives:

- To design and fabricate PCB for prototyping as well as in Industrial Production environment.
- It will help students to innovate faster with electronics technology.
- PCB (Printed Circuit Board) designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade.
- Identifying Electronic Components Symbols & Footprints
- Constructing your Component libraries & use them effectively
- Schematic creation & interpretation
- Effective use of design rules & interfacing between schematic & PCB

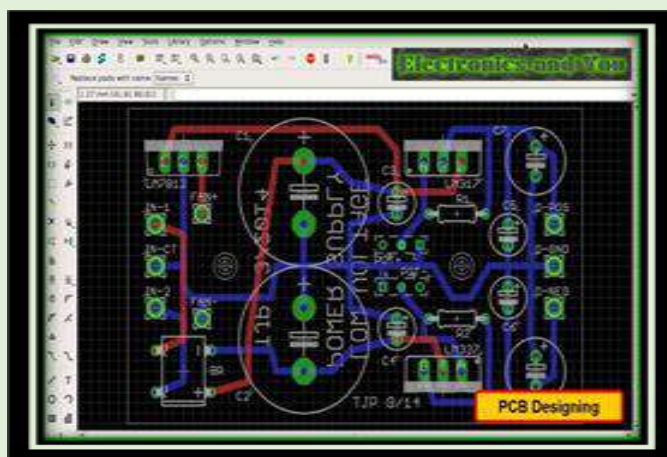
Course Co-ordinator:

R.Nethravathi

Asst. Prof, CSE

Contact no: 8431929192

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Course start date: 27-01-2020

Course end date: 02-03-2020

Venue:

Lecture Hall1: 201

Lecture Hall2: 202

Timings: 3:10PM-4:00PM

For registrations contact: [8431929192](tel:8431929192)

Course Instructors:

1. Ms.V. Hema

Asst. Prof, CSE

2.Mr.K.Ravi kiran

Asst. Prof, ECE

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PCB DESIGNING

Date: 27-01-2020 to 02-03-2020

Course Content

Introduction to PCB designing concepts & Brief History

What is PCB, Difference between PWB and PCB?

- Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer, PCB Materials,
- Introduction to Electronic design Automation (EDA), Brief History of EDA, Latest Trends in Market, How it helps and why it requires,
- Different EDA tools
- Introduction to SPICE and PSpice Environment
- Introduction and Working of PROTEUS
- Component introduction and their categories Types of Components
- Active Components: Diode, Transistor, MOSFET, LED, SCR, Integrated Circuits (ICs)
- Passive Components, Resistor, Capacitor, Inductor, Transformer
- Speaker/Buzzer Component Package Types, Through Hole Packages
- Axial lead, Radial Lead, Single Inline Package (SIP), Dual Inline Package (DIP), Transistor Outline (TO)
- Pin Grid Array (PGA), Through Hole Packages
- Metal Electrode Face (MELF), Leadless Chip Carrier (LCC), Small Outline Integrated Circuit (SOIC), Quad Flat Pack (QFP) and Thin QFP (TQFP), Ball Grid Array (BGA), Plastic Leaded Chip Carrier (PLCC)
- **Introduction to Development Tools**
- Introduction to PCB Design using OrCAD tool, Introduction to PCB Design using PROTEUS tool

Detailed description and practical of PCB designing PCB Designing Flow Chart

- Schematic Entry, Net listing, PCB Layout Designing, Prototype Designing
- Design Rule Check (DRC)
- Design for Manufacturing (DFM), PCB Making Printing
- Etching, Drilling, Assembly of components Description of PCB Layers, Electrical Layers
- Top Layer, Mid Layer, Bottom Layer, Mechanical Layers, Board Outlines and Cutouts
- Drill Details, Documentation Layers, Components Outlines, Reference Designation, text Keywords & Their Description
- Footprint, Pad stacks, Tracks, Color of Layers, PCB Track Size Calculation Formula
- PCB Materials, Standard FR-4 Epoxy

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Course Outcomes

After completion of the course students will be able to learn

- Basics of PCB designing.
- Apply advance techniques, skills and modern tools for designing and fabrication of PCBs.
- Apply the knowledge and techniques to fabricate Multilayer, SMT and HDI PCB.
- Understand a single layer and multilayer PCB
- Create and fabricate a PCB
- Evaluate and test a PCB



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A Course on
COMMUNICATION SKILLS & HUMAN VALUES

Organized by the Department of Computer Science and Engineering

Course Objectives:

- To make the students confident of speaking in English impeccably and with utmost enthusiasm.
- To familiarize the students with different styles of communication.
- To enlighten the students with the seven concepts of communication.
- To train the students and make them comprehend various aspects of Interview skills.
- Understand and analyze the essentials of human values and skills, self exploration, happiness and prosperity
- Identify and evaluate the role of harmony in family, society and universal order.

FOR REGISTRATIONS CONTACT: 9452856565

Course Co-ordinator:

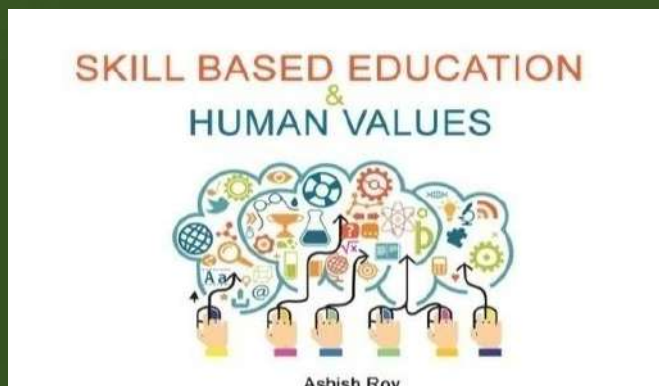
Mr.K.Rajesh Chary
Asst. Prof.(H&SC)

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Course start date: 27-01-2020

Course end date: 02-03-2020

Course instructors:

Ms.V.Pranathi
Asst.Prof,C.S.E
Ms.D.Raghava kumari
Asst.Prof,E.C.E

Pre-requisites:

- Communication is part of the foundation to any successful working relationship.
- Effective Communication includes clarity, conciseness, and coherence between all parties.
- However, that clarity, conciseness, and coherence doesn't always come naturally in a relationship.

Timings :3:10PM-4:00PM

Venue:

Lecture Hall1: 307

Lecture Hall2: 308



COMMUNICATION SKILLS & HUMAN VALUES

Date: 27-01-2020 to 02-03-2020

Course Content

Communication: An Introduction, Definition, Nature and Scope of Communication, Importance and Purpose of Communication, Process of Communication, Types of Communication.

Non-Verbal Communication ,Personal Appearance ,Gestures ,Postures ,Facial Expression ,Eye Contacts ,Body Language(Kinesics) ,Time language ,Silence ,Tips for Improving Non-Verbal Communication.

Effective Communication, Essentials of Effective Communication, Communication Techniques, Barriers to Communication.

Communication Network in an Organization, Personal Communication, Internal Operational Communication, External Operational Communication.

Communication Network in an Organization, Horizontal(Lateral) Communication, Vertical(Downward) Communication ,Vertical(Upward) Communication.

Communication in English, Age of Globalization and the Need for Communicating in English, English as the First or Second language, Uses of English in academic and non-academic situations in India.

Listening Skills, Purpose of Listening, Listening to Conversation (Formal and Informal),Active Listening-an Effective Listening Skill, Benefits of Effective Listening , Barriers to Listening, Listening to Announcements- (railway/ bus stations/ airport /sports announcement/ commentaries etc.).

Listening Skills, Academic Listening (Listening to Lectures), Listening to Talks and Presentations, Note Taking Tips.

Oral Communication Skills (Speaking Skills), Importance of Spoken English, Status of Spoken English in India, International Phonetic Alphabet (IPA) Symbols, Spelling and Pronunciation

Oral Communication Skills,(Communication in Context) ,Asking for and giving information, Offering and responding to offers, Requesting and responding to requests Congratulating people on their success, Expressing condolences, Asking questions and responding politely Apologizing and forgiving.

Oral Communication Skills,(Communication in Context) ,Giving instructions, Seeking and giving permission, Expressing opinions(likes and dislikes),Agreeing and disagreeing, Demanding explanations, Asking for and giving advice and suggestions ,Expressing sympathy

Reading Skills, Purpose, Process, Methodologies, Skimming and Scanning, Levels of Reading, Reading Comprehension, Academic Reading Tips.

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L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

Time Management, Identifying Time Wasters, Time Management Tips, Identifying Factors Responsible for Stress, Test Preparation Tips.

Soft Skills for Leadership and Team Management, Qualities of a Good Leader Leadership Styles ,Decision Making ,Intrapersonal skills ,Interpersonal skills ,Problem solving, Critical thinking, Negotiation skills.

Human Values: Need for value education in Technical and other Professional Institutions, State of Harmony is Happiness, Self-Exploration, Natural acceptance, Content of value education, value of an entity, Introduction to human values, Process of value education, Notion of Happiness, Animal & Human Consciousness, Happiness and Prosperity, Natural Acceptance, Purpose of Self Exploration.

Holistic perception of Harmony, Recyclability and self-regulation in nature, orders in nature, Harmony in nature, Professional Ethics, Defectiveness of ethical human conduct, Ethical human conduct, Universal human order, Current management modes in profession.

Course Outcomes

After completion of the course students will be able to learn

- Understand and apply communication theory.
- Critically think about communication processes and messages.
- Write effectively for a variety of contexts and audiences.
- Interact skillfully and ethically.
- Develop and deliver professional presentations.
- Understand and analyze the essentials of human values and skills, self-exploration, happiness and prosperity.
- Evaluate coexistence of the “I” with the body.
- Identify and evaluate the role of harmony in family, society and universal order.



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A Course on
ADVANCED SOFTWARE TESTING
Organized by the Department of Computer Science and Engineering

Pre-requisites:

1. Basic Knowledge on testing tools like Black box testing ,etc .
2. Skills and test and automation tools, Linux, SQL, and analytics are important for this.
3. It can be beneficial to develop impressive analytical skills and knowledge of computer systems to ensure that programs are running efficiently.

Course start date: 27-01-2020

Course end date: 02-03-2020

Venue:

Seminar Hall(311)

**Timings: 3:10PM-
4:00PM**

For Registrations

Contact: 9885463421



Course Instructors:

1. **Mr.T.Ravi Kumar**
Asst. Prof, CSE
2. **Mrs.M.Vishali**
Asst. Prof, CSE

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Course Objectives:

- To study fundamental concepts in software testing.
- To discuss various software testing issues and solutions in software unit test, integration and system testing.
- To expose the advanced software testing topics, such as object-oriented software testing methods.
- To learn how to write software testing documents, and communicate with engineers in various forms.
- To learn how to write software testing documents, and communicate with engineers in various forms.
- To gain the techniques and skills on how to use modern software testing tools to support software testing projects

Course Co-ordinator:

Mrs. M. Sruthi
Asst. Prof, CSE

Contact no:



ADVANCED SOFTWARE TESTING

Date: 27-01-2020 to 02-03-2020

Course Content

- Introduction to Software Testing
- What is Software Testing? Why do we test software? What is a Defect?
- Verification vs. Validation Quality Assurance vs Quality Control vs Testing Principles of Software Testing
- Introduction to SDLC and STLC - Overview on SDLC
- Different Life Cycle Models Overview on STLC, AGILE
- Types of testing manual and automation
- Introduction to testing methods
- white-box, black-box and grey-box
- Introduction to functional testing
- Introduction to non-functional testing
- Introduction to levels of testing
- Unit Testing, Integration Testing
- System Testing
- User Acceptance Testing
- Introduction to types of testing
- Regression Testing
- Smoke Testing
- Database Testing
- Usability Testing
- Load Testing, Stress Testing
- Performance Testing
- Compatibility Testing
- Security Testing
- Internationalization Testing
- Localization ,Test Strategy
- Test Planning ,Overview on Budgeting ,Scheduling
- Configuration Management Risk Management
- Static Testing Techniques, Importance of reviews in STLC

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- Review Activities ,Roles and Responsibilities during Review
- Dynamic Testing Techniques ,Specification-based or black-box techniques
- Boundary Value Analysis ,Decision Table Testing, Equivalence Partitioning
- Experience-based Testing Techniques

Course Outcomes:

After the completion of the course, the students will be able to

- List a range of different software testing techniques and strategies and be able to apply specific (automated) unit testing method to the projects.
- Distinguish characteristics of structural testing methods.
- Demonstrate the integration testing which aims to uncover interaction and compatibility problems as early as possible.
- Discuss about the functional and system testing methods.
- Demonstrate various issues for object-oriented testing



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No. SRITW/Prin/2018

Date: 16/08/2018

CIRCULAR

All the students are hereby informed that our college is offering value-added courses. Interested students can register their names with the respective course coordinator. A detailed brochure regarding the courses is available in the notice board.

Criteria for Certification: Attendance $\geq 75\%$ and marks secured $\geq 70\%$.

Important dates

Registrations opening date: 23-08-2018

Registrations closing date: 31-08-2018

Course start date: 01-09-2018

Course end date: 13-10-2018

Courses offered:

1. Advanced Excel
2. Computer Hardware & System Software
3. Innovation & Entrepreneurship Management
4. Migration Techniques in Cloud Computing

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A COURSE ON ADVANCED EXCEL

Organized by Department of Computer Science and Engineering

For registrations contact:9969985345.

Course Objectives

- This course helps students to learn how to work with databases in MS-Excel using Filtering, Sorting and subtotals.
- Edit worksheets using Advanced Enhancements and work sheet Features.
- Import and Export data to and from Excel and other office Applications.
- Create templates after writing complex worksheets and workbooks.
- Summarize data in worksheets and workbooks.

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Pre-requisites

- Have a good working knowledge of Windows XP/Vista or the MAC operating System.
- Have home access to windows based or MAC based Computer with MS-Office 2002, 2003, 2007 or the MAC equivalent Installed.
- Commitment to spend atleast one hour per week practising the skills introduced in the course.

Course Co-ordinator:

Mr. A.Rama Krishna
Asst, Prof. CSE Dept
CONTACT:9969985345

Course start Date: 01-09-2018

Course end Date: 13-10-2018

Course Instructors:

Mr.G.Ranadheer Reddy,
Asst.Prof,CSE
Mr.V.Srinivas,
Asst.Prof,CSE

Venue: Computer Lab3 & Lab5

Timings: 3.10PM-4.00PM



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ADVANCED EXCEL

Date: 01-09-2018 to 13-10-2018

Course Content

1. Advanced Excel Course - Overview of the Basics of Excel

Customizing common options in Excel, Absolute and relative cell, Protecting and un-protecting worksheets and cells

2. Advanced Excel Course - Working with Functions

Writing conditional expressions (using IF), Using logical functions (AND, OR, NOT)

Using lookup and reference functions (VLOOKUP, HLOOKUP, MATCH, INDEX)

VlookUP with Exact Match, Approximate Match, Nested Vlook UP with Exact Match

VlookUP with Tables, Dynamic Ranges, Nested VlookUP with Exact Match, Using VLookUP to consolidate Data from Multiple Sheets

3. Advanced Excel Course - Data Validations

Specifying a valid range of values for a cell, specifying a list of valid values for a cell
specifying custom validations based on formula for a cell

4. Advanced Excel Course - Working with Templates

Designing the structure of a template, using templates for standardization of worksheets

5. Advanced Excel Course - Sorting and Filtering Data

Sorting tables, using multiple-level sorting, using custom sorting, Filtering data for selected view (AutoFilter), using advanced filter options

6. Advanced Excel Course - Working with Reports

Creating subtotals, Multiple-level subtotals, creating pivot tables, formatting and customizing pivot tables, using advanced options of pivot tables pivot charts, consolidating data from multiple sheets and files using pivot tables using external data sources, using data consolidation feature to consolidate data, show value as (% of row, % of column, running total, compare with specific field),viewing subtotal under Pivot, creating slicers (version 2010 & above)

7. Advanced Excel Course - More Functions

Date and time functions, text functions, database functions, power functions (count If, count IFS, sum IF, sum IFS)

8. Advanced Excel Course – Formatting

Using auto formatting option for worksheets, using conditional formatting option for rows, columns and cells

9. Advanced Excel Course – Macros

Relative & Absolute Macros, Editing Macro's

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A Course on **COMPUTER HARDWARE & SYSTEM SOFTWARE**

Organized by Department of Computer Science and Engineering

Pre-requisites:

- Processor: Minimum 1 GHz;
Recommended 2GHz or more.
- Ethernet connection (LAN)
- Hard Drive: Minimum 32 GB;
Recommended 64 GB or more.
- Memory (RAM): Minimum 1 GB;
Recommended 4 GB or above.

Course Coordinator:

Mr.K.Ranganath
Asst, Prof, CSE Dept

For registrations contact: **8374902324**

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Course Objectives

- This course provides foundational understanding of how computers process information through hardware and software.
- Identify the basic hardware components of a computer
- Investigate the world of Information Technology (IT) and survey hardware components, mobile devices, operating systems, programs and apps, network fundamentals, the Internet
- Explain how software creates a functional and productive computer. Build a basic computer.

Course Starts on: 01-09-2018
Course Ends on : 13-10-2018

Course Instructors:

Mr.M. Ranjith Kumar,
Asst.Prof,CSE
Mr.Ch.Shiva Sai Prasad,
Asst.Prof,CSE

Venue: Lecture Hall 116 & 117

Timings: 3.10PM-4.00PM



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COMPUTER HARDWARE AND SYSTEM SOFTWARE

Date: 01-09-2018 to 13-10-2018

Course Content

- Computer Fundamentals.
- Introduction to Computers.
- Types of Computers.
- Introduction to Input Output Devices.
- Introduction to Storage Devices.
- Principals of Data Communication.
- Hardware Configuration
- Basic Electricity and Electronics.
- Work of Different ICs.
- Introduction to basic components of a typical PC.
- Assembling a PC.
- Basic Trouble shooting during the assembling.
- Basic troubleshooting of PC.
- BIOS & Installing Operating System.
- Boards and Other Components testing Logic and Digital Multi-Meter Using.
- Introduction to Various types of Cables and Connectors Used in Networking.
- Introduction to Networking and Networking Concepts.
- Networking Fundamentals & Network Configuration.
- Explain network technologies.
- Explain how devices access local and remote network resources.
- Describe router hardware.
- Repeaters, Hubs, Switches, Bridges, Routers.
- Configuration of IP Address.
- LAN Practical's.
- IP Addressing and IP Classes.
- Basic Network Troubleshooting.
- Basics of Network Security.

Introduction to the course: Explains about the course and the importance of the course what is Computer, Basic Applications of Computer; Components of Computer System, Central Processing Unit (CPU), VDU, Keyboard and Mouse, Other input/output Devices, Computer Memory.

Software, Operating System and its concepts: Uses of Computer in daily life: What is an Operating System; Basics of Popular Operating Systems; the User Interface, Using Mouse; Using right Button of the Mouse and Moving Icons on the screen, Use of Common Icons, Status Bar.

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Multimedia and its uses: Introduction to Multimedia 08Hrs. What is multimedia?

Components of multimedia, Web and Internet multimedia applications, Transition from conventional media to digital media.

Ms-word: Creating, editing, saving and printing text documents, Font and paragraph formatting, Simple character formatting, Inserting tables, smart art, page breaks, using lists and styles.

Ms. Power Point: Opening, viewing, creating, and printing slides, applying auto layouts, Adding custom animation, Using slide transitions .Graphically representing data: Charts & Graphs
Creating Professional Slide for Presentation

Course Outcomes: After the completion of course, the students will be able to:

- Identify the basic hardware components of a computer.
- Explain how software creates a functional and productive computer.
- Build a basic computer and programming skills and other basic concepts of computer.
- Usage of MS-word, MS-Power Point.
- About Multimedia.



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A Course on

INNOVATION & ENTREPRENEURSHIP MANAGEMENT

Organized by the Department of Electronics and Communication Engineering

Course Objectives:

- Respond positively and effectively to problems in unfamiliar contexts.
- Apply new ideas, methods and ways of thinking.
- Engage with a range of stakeholders to deliver creative and sustainable solutions to specific problems.
- Communicate effectively both orally and in writing.
- Work effectively with colleagues with diverse skills, experiences and be able to critically reflect on own practice.
- Consider the ethical and environmental issues and responsibilities which managers take into account when making decisions ideas and start up.

Pre-requisites:

- Every innovation must solve a customer problem.
- A great innovation starts with at least three ideas.
- Be a dreamer first, but a realist on marketplace risk.
- Test your innovation with at least a hundred customers.
- The most important skills and traits that are helpful for entrepreneurs include critical thinking, creativity
- Creativity, risk-taking, problem-solving, networking, leadership, and communication skills.

Course Co-ordinator:

Ms.V.Pranathi
Asst, Prof. CSE Dept
For Registrations CONTACT:7093046235

Course Instructors:

Ms.Ch.Padmaja,
Asst.Prof,ECE
Ms.N.Swathi,
Asst.Prof,ECE

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Venue: Lecture Halls:216 & 217

Timings: 3.10PM-4.00PM

Course Start date:1-09-2018

Course End date :13-10-2018



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INNOVATION AND ENTREPRENEURSHIP MANAGEMENT

Date: 01-09-2018 to 13-10-2018

Course Content

- Idea generation & Prototype Development
- Technological and Non technological Innovation and process
- Entrepreneurship
- Social Innovation and Entrepreneurship
- Intellectual Property Right (IPR) & Patents
- Commercialization of Innovations
- Start up and Venture development
- Innovation and Start up ecosystem
- Pre-incubation and Incubation Stages
- Entrepreneurial opportunities, attitude, traits and tendencies.
- Investment, Angel, VC fund system
- Govt. Schemes and funding support to ideas, innovations, and start up
- Current trends, development and general awareness on Innovation and start up
- Taking product or service ideas to creating value: Why should one choose to become an entrepreneur, Entrepreneurial mind-set
- Introduction to engineering design process and the concept of frugal engineering for developing innovative affordable products, effective user-interface
- Introduction to the bottlenecks of new product innovation process
- Industry 4.0 landscape and innovations using digital technologies like AI, IOT, AR/VR, Cloud,
- SAAS, User Applications. The basic technology framework and development platforms
- Entrepreneurship in Data Analytics
- An overview of Business Plan Development, Preparing Business Concept Document
- Understanding and delivering Value, Product- Market Matrix, Delivery Strategy with a Difference
- Economic consideration for starting a venture, Understanding Feasibility analysis
- Understanding market, targeting customer and positioning product
- Business model innovation, Business process management , competitive advantages, Business model canvas
- Bootstrapping, angel investors, incubation and acceleration, concept of break-even point

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Course Outcomes: After the course students will be able to learn

- Respond positively and effectively to problems in unfamiliar contexts.
- Apply new ideas, methods and ways of thinking.
- Engage with a range of stakeholders to deliver creative and sustainable solutions to specific problems.
- Communicate effectively both orally and in writing.
- Work effectively with colleagues with diverse skills, experiences and be able to critically reflect on own practice.
- Consider the ethical and environmental issues and responsibilities which managers take into account when making decisions ideas and start up.



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A COURSE ON MIGRATION TECHNIQUES IN CLOUD COMPUTING

Organized by the Department of Electrical and Electronics Engineering

❖ Course Objectives:

- Understand the idea behind cloud computing services , host web services, store and backup data, host and stream media & many more.
- About Cloud Infrastructures
- About Amazon Web Services
- About Cloud Security
- This course gives students an insight into the basics of cloud computing along with virtualization

❖ Course Coordinator:

Mr.V. Srinivas
Asst.Prof, CSE

Contact no. for registrations: 9849815464

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❖ Course Instructors:

1. Mr.K.Sravan Kumar
Asst. Prof, EEE
2. Mr.K.Ravi Kiran
Asst. Prof, ECE

❖ Venue:

Lecture Hall1: 307
Lecture Hall2: 308
Timings: 3:10PM-4:00PM

Registration Opening Date: 23-08-2018
Registration Closing Date: 31-08-2018
Course Start Date: 01-09-2018
Course End Date: 13-10-2018



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MIGRATION TECHNIQUES IN CLOUD COMPUTING

Date: 01-09-2018 to 13-10-2018

Course Content

- Basic Concepts of Cloud Computing:
- Computer Network Basics, Concepts of Distributed Systems
- Concepts of Cloud Computing and its Necessity
- Cloud Service Providers in use and their Significance.
- Cloud Infrastructures: Cloud Pros and Cons, Cloud Delivery Models
- Cloud Deployment Models
- Cloud Storage Management: Concept of Virtualization and Load Balancing
- Overview on Virtualization used for Enterprise Solutions
- Key Challenges in managing Information
- Identifying the problems of scale and management in big data.
- Building Cloud Networks: Designing and Implementing a Data Center-Based Cloud Installing Open Source Cloud service. Amazon Web Services (AWS)
- Google Cloud Platform
- Cloud Security
- Introduction of AWS services
- Cloud adoption framework for AWS
- 6R migration framework
- Well architecture framework
- Database migration
- Migrating web application
- Application discovery
- Server migration
- Migration Planning and Discovery
- Cloud Migration Frameworks
- Optimizing Cloud Systems

Course Outcomes: After the completion of the course, the students will be able to

- Understand the idea behind cloud computing services i.e. host web services, store and backup data, host and stream media & many more.
- About Cloud Infrastructures
- About Amazon Web Services
- About Cloud Security



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No. SRITW/Prin/2019

Date: 16-02-2019

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All the students are hereby informed that our college is offering value-added courses. Interested students can register their names with the respective course coordinator. A detailed brochure regarding the courses is available in the notice board.

Criteria for Certification Attendance $\geq 75\%$ and marks secured $\geq 70\%$.

: Imp dates:

Registrations opening date: 22-02-2019

Registrations closing date: 28-02-2019

Course start date: 01-03-2019

Course end date: 09-04-2019

Courses offered:

1. Softskills
2. Ethical Hacking
3. Real Time Applications in Java
4. Advanced Software Testing

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To be read in classrooms

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A course on SOFT SKILLS

Organized by the Department of Computer Science and Engineering

Course Objectives:

- To understand virtual networking in the cloud with Amazon VPC.
- To create virtual firewalls with security groups.
- To secure delivery of data, videos, applications, and APIs with Amazon Cloud Front.
- To provide an overview of different database services in the cloud.
- To learn and understand basics and working definitions of AWS.
- To describe and provide an example of the core AWS services, including compute, network, database, and storage services.
- To understand the AWS Well-Architected Framework.

Course Coordinator:

Ms.V.Hema
Asst. Prof, CSE

For registrations contact: **7396278997**



Course Instructors:

1. **Mr.Manannuddin khaja**
Asst. Prof, CSE
2. **Mrs.K.M.Sujatha**
Asst. Prof, H&Sc

Course Start Date: 01-03-2019

Course End Date: 09-04-2019

❖ **Venue: LH 307 & 308**

❖ **Timings: 3:10PM-4:00PM**

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SOFTSKILLS

Date: 01-03-2019 to 09-04-2019

Course Content

Public Speaking: The power of Public Speaking, Developing confidence, Planning, Preparation, Successful and effective delivery of speech

Group Discussion: What is group discussion? Why are group discussions held? Preparation for a group discussion, Skills for effective participation, Traits tested in a group discussion, initiating a group discussion, Non-verbal communication in group discussion, Types of group discussions

Interviews, developing an Interview Strategy, Taking Care of the Details, practicing for the Interview, During the Interview, Traditional Interviews, Writing Skills

Basics of writing

Writing paragraphs

Writing research articles

Report writing

Writing a CV.

1. The basics

- i. Understanding the communicative environment
- ii. Understanding the communicative environment
- iii. What to listen for and why
- iv. When to speak and how
- v. Starting and sustaining a conversation

2. Presentation and interaction

- i. What to present and how
- ii. What to present and how
- iii. Multimedia presentation: Understanding the basics
- iv. Communication styles
- v. Speaking in groups

3. Visual, nonverbal and aural communication

- i. The world of visual culture
- ii. Visual perception
- ii. The aural: Its relevance and impact
- iv. The body and the way it communicates
- v. The face, its expressions and what it says

4. Individuals, groups and cultures

- i. Building Relationships
- ii. Understanding Group Dynamics
- iii. Understanding Group Dynamics
- iv. Groups, Conflicts and their Resolution
- v. Social Network, Media and Extending Our Identities

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5. Interpersonal communication

Emotional and social skills

6. Creativity, critical thinking and problem solving

7. Developing key traits

Motivation, persuasion

Negotiation and leadership

i. Motivating oneself

ii. The art of persuasion

iii. The art of persuasion

iv. From persuasion to negotiation

v. Leadership and motivating others

8. Essential and vocational skills: survival strategies

i. managing time

ii. Managing stress

iii. Resilience

iv. Work-life balance

v. applying soft-skills to workplace

Course Outcomes: After the completion of course, the students will be able to:

- Improve their soft skills and English-Speaking ability.
- Develop effective communication skills (spoken and written).
- Develop effective presentation skills.
- Conduct effective business correspondence and prepare business reports which produce results.
- Developing an Interview Strategy.



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Affiliated to JNTUH - Approved by AICTE

ETHICAL HACKING

Date: 01-03-2019 to 09-04-2019

Course Content

- Introduction to Ethical Hacking
- Scanning Networks
- System Hacking
- Sniffing
- Denial of Service
- Hacking Web Servers
- SQL Injection
- Hacking Mobile Platforms
- Cloud Computing
- Foot printing and Reconnaissance
- Enumeration
- Malware Threats
- Social Engineering
- Session Hijacking
- Hacking Web Applications
- Hacking Wireless Networks
- Evading IDS, Firewalls and Hone ypot
- Cryptography
- Introduction to ethical hacking
- Fundamentals of computer networking
- TCP/IP protocol stack
- IP addressing and routing. Routing protocols
- Introduction to network security
- Information gathering, reconnaissance, scanning, etc
- Social engineering attacks
- Malware threats, penetration testing by creating backdoors
- Introduction to cryptography
- Private-key encryption and public-key encryption.
- Introduction to cryptography
- private-key encryption
- Public-key encryption.
- Hacking web applications
- vulnerability assessment, SQL injection
- Cross-site scripting.

Rijan

Ananthasagar, Hasanparthy, Warangal -506371, Telangana. Website: www.sritw.org

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Principal
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- Steganography
- biometric authentication, lightweight cryptographic algorithms,
- sniffing: Wire shark
- ARP poisoning, DNS poisoning,
- Hacking wireless networks
- Denial of service attacks.

Course Outcomes

After completion of the course students can able to learn

- Ethical hacking is a subject that has become very important in present-day context that every individual should learn.
- It can help individuals and organizations to adopt safe practices and usage of their IT infrastructure.
- Include basic topics like networking, network security and cryptography.
- The course will cover various attacks and vulnerabilities and ways to secure them.



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A COURSE ON REAL TIME APPLICATIONS IN JAVA

Organized by the Department of Computer Science and Engineering

❖ Course Objectives:

- Understand the syntax, control structures, data structures of java programming language.
- Ability to demonstrate simple Java programs.
- Ability to code any given algorithm, or provide a solution to real-life-problem using JAVA language
- Ability to build Desktop Applications with GUI (Graphical User Interface).
- Database connectivity to create real-life/business solutions
- Inculcating the ability to enjoy coding and build simple games like Tic-Tac-Toe etc.

❖ Course Coordinator:

Ms.R.Nethravathi
Asst. Prof, CSE

For registrations contact: **6305006501**



❖ Course Instructors:

1. Ms.S.Shwetha
Asst. Prof,CSE
2. Mr.K.Ranganath
Asst. Prof,CSE

➤ Venue:

Lecture Hall: 201 & 202
Timings: 3:10PM-4:00PM

Course Start Date: 01-03-2019

Course End Date: 09-04-2019

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Real Time Applications in Java

Date: 01-03-2019 to 09-04-2019

Course Content

Introduction to topic, Basic concepts related to java and how can we implement this programming language in real time.

- Desktop GUI Applications
- Mobile Applications
- Enterprise Applications
- Scientific Applications
- Web-based Applications
- Embedded Systems
- Big Data Technologies
- Distributed Applications
- Cloud-based Applications
- Web servers and Application servers
- Software Tools
- Gaming Applications

Course Outcomes

After the completion of course, the students will be able to:

- Understand the syntax, control structures, data structures of java programming language.
- Ability to demonstrate simple Java programs.
- Ability to code any given algorithm, or provide a solution to real-life-problem using JAVA language
- Ability to build Desktop Applications with GUI (Graphical User Interface) and
- Database connectivity to create real-life/business solutions
- Inculcating the ability to enjoy coding and build simple games like Tic-Tac-Toe etc



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A Course on ADVANCED SOFTWARE TESTING
Organized by the Department of Computer Science and Engineering

Pre-requisites:

- To become a software tester, they need a degree in engineering, math, or computer science.
- Skills and test and automation tools, Linux, SQL, and analytics are important for this.
- It can be beneficial to develop impressive analytical skills and knowledge of computer systems to ensure that programs are running efficiently

Course start date: 01-03-2019

Course end date: 09-04-2019

Venue:

Lecture Hall1: 216

Lecture Hall2: 217

**Timings: 3:10PM-
4.00PM**



Course Instructors:

1. Mr. A.Rama Krishna

Asst. Prof, CSE

2. Mr.B.Prabhanjan Yadav

Asst. Prof, CSE

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Course Objectives:

- To study fundamental concepts in software testing.
- To discuss various software testing issues and solutions in software unit test, integration and system testing.
- To expose the advanced software testing topics, such as object-oriented software testing methods.
- To learn how to write software testing documents, and communicate with engineers in various forms.
- To learn how to write software testing documents, and communicate with engineers in various forms.
- To gain the techniques and skills on how to use modern software testing tools to support software testing projects

Course Co-ordinator:

Ms. M. Sruthi

Asst. Prof, CSE

**For Registrations Contact :
885463421**



ADVANCED SOFTWARE TESTING

Date: 01-03-2019 to 09-04-2019

Course Content

- Introduction to Software Testing
- What is Software Testing? Why do we test software? What is a Defect?
- Verification vs. Validation Quality Assurance vs Quality Control vs Testing Principles of Software Testing
- Introduction to SDLC and STLC - Overview on SDLC
- Different Life Cycle Models Overview on STLC, AGILE
- Types of testing manual and automation
- Introduction to testing methods
- white-box, black-box and grey-box
- Introduction to functional testing
- Introduction to non-functional testing
- Introduction to levels of testing
- Unit Testing, Integration Testing
- System Testing
- User Acceptance Testing
- Introduction to types of testing
- Regression Testing
- Smoke Testing
- Database Testing
- Usability Testing
- Load Testing, Stress Testing
- Performance Testing
- Compatibility Testing
- Security Testing
- Internationalization Testing
- Localization ,Test Strategy
- Test Planning ,Overview on Budgeting ,Scheduling
- Configuration Management Risk Management
- Static Testing Techniques, Importance of reviews in STLC

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- Review Activities ,Roles and Responsibilities during Review
- Dynamic Testing Techniques ,Specification-based or black-box techniques
- Boundary Value Analysis ,Decision Table Testing, Equivalence Partitioning
- Experience-based Testing Techniques

Course Outcomes:

After the completion of the course, the students will be able to

- List a range of different software testing techniques and strategies and be able to apply specific (automated) unit testing method to the projects.
- Distinguish characteristics of structural testing methods.
- Demonstrate the integration testing which aims to uncover interaction and compatibility problems as early as possible.
- Discuss about the functional and system testing methods.
- Demonstrate various issues for object-oriented testing



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