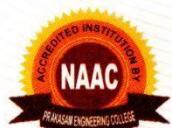




**Department of ECE**  
**Summary Sheet of VALUE ADD COURSES**  
**ACADEMIC YEAR 2023-24**

S. No	Name of the works hop/ Seminar/ Conference	Type of the Event	Resource Person Details	Number Of Participants	Course No	Date From-To
1	MOBILE COMPUTING	VALUE ADDED COURSE	DR . K SUBBA REDDY	95	2023-24/PEC/ECE/IVYEAR/VAC001	09-10-2023 to 14-10-2023
2	ETHICAL HACKING	VALUE ADDED COURSE	DR . K.V.SRINIVASA RAO	85	2023-24/PEC/ECE/IIIYEAR/VAC002	21-08-2023 to 26-08-2023
3	CYBER ATTACK DETECTION AND PREVENTION SYSTEMS	VALUE ADDED COURSE	DR . K SUBBA REDDY	82	2023-24/PEC/ECE/IIYEAR/VAC003	06-11-2023 to 11-11-2023





**Department of ECE**  
**BROCHERS of VALUE ADDED COURSES conducted in Academic year 2023-24**

**BROCHER**

MOBILE COMPUTING 09-10-2023 to 14-10-2023

**CHIEF PATRON**  
**Dr.K.Ramaiah**  
Secretary & correspondant  
Prakasam Engineering college Kandukur

**PATRON**  
**Dr.CH.Ravi Kumar** M.Tech.,Ph.D.  
Principal  
Prakasam Engineering college Kandukur

**CONVENER**  
**Dr.G.SURESH** M.Tech., Ph.D.  
Head of Department  
Department of Electronics and communication Engineering  
Prakasam Engineering college Kandukur

**Co-Ordinator**  
**Mr. N.SRIHARI** M.Tech.  
Assistant Professor

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**Value Added Course**  
on  
VAC001 – MOBILE COMPUTING  
**09-10-2023 to 14-10-2023**

Organized by  
**Electronics and communication Engineering.**

**venue:** PEC-1/5 /SEMINAR-2 HALL

For any details, please contact  
Course in-charge  
**Mr.N.SRIHARI**  
Assistant Professor  
9640881781

**COURSE OBJECTIVES**  
To understand the basic concepts of mobile computing.  
• To learn the basics of mobile telecommunication system.

**COURSE OUTCOMES (COS)**  
Students in the course obtained the following outcomes:

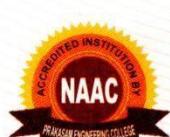
- Illustrate the generations of telecommunication systems in wireless networks

Determine the functionality of MAC, network layer and identify a routing protocol for a given Ad hoc network. Explain the functionality of Transport and Application layers

**EMINENT SPEAKER**  
**DR . K SUBBA REDDY**  
HOD of CAI  
Prakasam engineering college

**CONTENT**

- Introduction to Mobile Computing MAC Protocols
- Applications of Mobile Computing
- Generations of Mobile Communication Technologies
- MOBILE TELECOMMUNICATION SYSTEM
- Introduction to Cellular Systems – GSM – Services
- Architecture – Protocols – Connection Establishment
- Frequency Allocation – Routing – Mobility
- GPRS- UMTS – Architecture – Handover – Security.
- MOBILE NETWORK LAYER 9 Mobile IP – DHCP AdHoc– Proactive protocol-DSDV, Reactive routing Protocols
- DSR, AODV , Hybrid routing –ZRP, Multicast Routing- ODMRP, Vehicular Ad Hoc networks (VANET)
- MOBILE TRANSPORT AND APPLICATION LAYER Commercial Mobile Operating Systems
- Software Development Kit: iOS, Windows Phone – MCommerce
- Structure – Pros & Cons
- Mobile Payment System – Security Issues.



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## BROCHER

ETHICAL HACKING 21-08-2023 to 26-08-2023

**CHIEF PATRON**  
**Dr.K.Ramaiah**  
Secretary & correspondant  
Prakasam Engineering college Kandukur

**PATRON**  
**Dr.CH.Ravi Kumar** M.Tech.,Ph.D.  
Principal  
Prakasam Engineering college Kandukur

**CONVENER**  
**Dr.G.SURESH** M.Tech.,Ph.D.  
Head of Department  
Department of Electronics and communication Engineering  
Prakasam Engineering college Kandukur

**Co-Ordinator**  
**Mr. SK.Masthan vali** M.Tech.  
Assistant Professor



**Value Added Course**  
ON  
VAC001 – ETHICAL HACKING  
21-08-2023 to 26-08-2023

Organized by  
Electronics and communication Engineering.



venue:PEC-1/5 /SEMINAR-2 HALL

For any deals, please contact  
Course in-charge  
Mr.SK.Masthan vali  
Assistant Professor  
8121813171

### COURSE OBJECTIVES

To understand the basic concepts of mobile computing.

- Learn aspects of security, importance of data gathering, foot printing and system hacking.
- Learn tools and techniques to carry out a penetration testing.

### COURSE OUTCOMES (COS)

Students in the course obtained the following outcomes:

- Explain aspects of security, importance of data gathering, foot printing and system hacking.
- Explain aspects of security, importance of data gathering, foot printing and system hacking.

### CONTENT

- Casing the Establishment , What is foot printing, Internet Foot printing
- Scanning, Enumeration, basic banner grabbing
- Common Network services. Case study: Network Security Monitoring, Enumerating
- Securing permission: Securing file and folder permission Remote access,
- Using the encrypting file system, Securing registry permissions
- Securing service: Managing service permission
- Default services in windows 2000 and windows XP, Unix: The Quest for Root.Remote Access vs Local access
- Local access, After hacking root.Dial-up, PBX, Voicemail and VPN hacking
- Preparing to dial up, War-Dialing – BruteForce Scripting PBX hackingVoice mail hacking, VPN
- Network Devices: Discovery Autonomous System Lookup, Public Newsgroups, Service Detection
- Remote Control Insecurities, Discovering Remote Control Software, Connection Weakness .VNC, Microsoft Terminal Server and Citrix ICA, Advanced Techniques Session Hijacking
- Back Doors, Trojans, Cryptography, Subverting the systems Environment, Social Engineering.

### EMINENT SPEAK

DR K.V.SRINIVASA RAO  
CSE department , PROFESSOR  
Prakasam engineering college



## BROCHER

### CYBER ATTACK DETECTION AND PREVENTION SYSTEMS 06-11-2023 to 11-11-2023

#### CHIEF PATRON

**Dr.K.Ramaiah**

Secretary & Correspondent  
Prakasam Engineering College Kandukur

#### PATRON

**Dr.Ch.Ravi Kumar** M.Tech.,Ph.D.

Principal  
Prakasam Engineering College Kandukur

#### CONVENER

**Dr. G.SURESH** M.Tech.,Ph.D.

Head of the Department Electronics and communication Engineering  
Prakasam Engineering College Kandukur

#### Co-Ordinator

**Mr.N.SRIHARI** M.Tech.

Assistant Professor.

#### COURSE OBJECTIVES

- To understand the intrusion detection and prevention technologies, various types of network behavior analysis..

#### COURSE OUTCOMES (CO)

- To understand the intrusion detection and prevention technologies, various types of network behavior analysis.
- To understand the honeypots, multiple IDS methods, tools to analyze various types of attacks like wireless attacks and their detection.
- To understand the the attack source and also provides practical knowledge for dealing with intrusions in real world applications.

#### EMENANT SPEAKER

**Dr.K.SUBBAREDDY** M.Tech.,Ph.D  
HOD & Professor of CSAI  
Prakasam Engineering College

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#### Value Added Course

on

VAC003 – CYBER ATTACK DETECTION AND PREVENTION SYSTEMS

06-11-2023 to 11-11-2023

Organized by

**Department of Electronics and communication Engineering**



Venue : B2/F2/13/SEMINAR HALL - 1

#### For any details, Please contact

##### Course in-charge

**Mr.N.Srihari** M.Tech

Assistant Professor  
9640881781

#### CONTENT

- Introduction to IDPS IDPS Technologies, Components  
Architecture Implementation Uses of IDPS  
Key Functions, Common Detection Methodologies Signature
- Anomaly and Stateful
- Protocol Analysis , Types of IDPS Technologies
- Host and Network IDPS 4 hours Application
- Transport, Network and Hardware Layer attacks
- Sniffing Network Traffic, Replay Attacks, Command Injection, Internet Control Message Protocol Redirect, DDoS, Dangers and defenses with Man-in-the Middle, Secure Socket Layer attacks, DNS Spoofing, Defense- in-Depth Approach,
- Port Security, Use Encrypted Protocols Network Behaviour Analysis  
Components and Architecture Typical, Realistic Environment Network Architecture, Sensor Locations. Honeynets- Gen I, II and III, Honey mole  
Detecting the Attack – Intrusion Detection, Network Traffic
- Capture, Monitoring on the box ,Setting up theWireless IDPS 5 Hours  
WLAN Standards,WEP Attacks, Attacks, Bluetooth Attacks,
- Attacks, on, Jailbreaking. Attacks, on, Jailbreaking.



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