NARSIMHA REDDY ENGINEERING COLLEGE
UGC-AUTONOMOUS INSTITUTION
Your roots to success

An Autonomous Institute
NAAC Accreditation 'A' Grade
Accredited by NBA
Approved by AICTE, Affiliated to JNTUH

School of Computer Science

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1: SYLLABUS (NR21)

CYBER CRIME INVISTIGATION

(Professional Elective- V)

B.Tech. IV Year I Semester							
Course Code	**Category**	**Hours / Week**			**Credits**	**Maxumum Marks**	
CS4116PE	**Elective**	**L**	**T**	**P**	**C**	**CIA**	**SEE**	**Total**
		3	**0**	**0**	**3**	**30**	**70**	**100**
Contact classes: 60	**Tutorial Classes : NIL**	**Practical classes : NIL**				**Total Classes :60**	
Prerequisites:							

Course Objectives:

• To analyze how to conduct a digital forensics investigation and validate forensics data.

Course Outcomes:

• Understand the fundamentals of cybercrime and issues.
• Understand different investigation tools for cybercrime.
• Understand basics of Forensic Technology and Practices.
• Analyze different laws, ethics and evidence handling procedures
• Make Study On Various Case Studies On Real Time Crimes

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NR21 B.Tech CSE

COURSE SYLLABUS

Unit- I
Introduction: Introduction and Overview of Cyber Crime, Nature and Scope of Cyber Crime, Types of Cyber Crime: Social Engineering, Categories of Cyber Crime, Property Cyber Crime.

Unit – II
Cyber Crime Issues: Unauthorized Access to Computers, Computer Intrusions, White collar Crimes, Viruses and Malicious Code, Internet Hacking and Cracking, Virus Attacks, Pornography, Software Piracy, Intellectual
Property, Mail Bombs, Exploitation, Stalking and Obscenity in Internet.

Unit – III
Investigation: Introduction to Cyber Crime Investigation, Investigation Tools, eDiscovery, Digital Evidence Collection, Evidence Preservation, E-Mail Investigation, E-Mail Tracking, IP Tracking, E-Mail Recovery, Hands
on Case Studies. Encryption and Decryption Methods, Search and Seizure of Computers, Recovering Deleted Evidences, Password Cracking.

Unit – IV
Digital Forensics: Introduction to Digital Forensics, Forensic Software and Hardware, Analysis and Advanced Tools, Forensic Technology and Practices
Unit – V
Laws and Acts: Laws and Ethics, Digital Evidence Controls, Evidence Handling Procedures, Basics of Indian Evidence ACT IPC and CrPC, Electronic Communication Privacy ACT, Legal Policies.
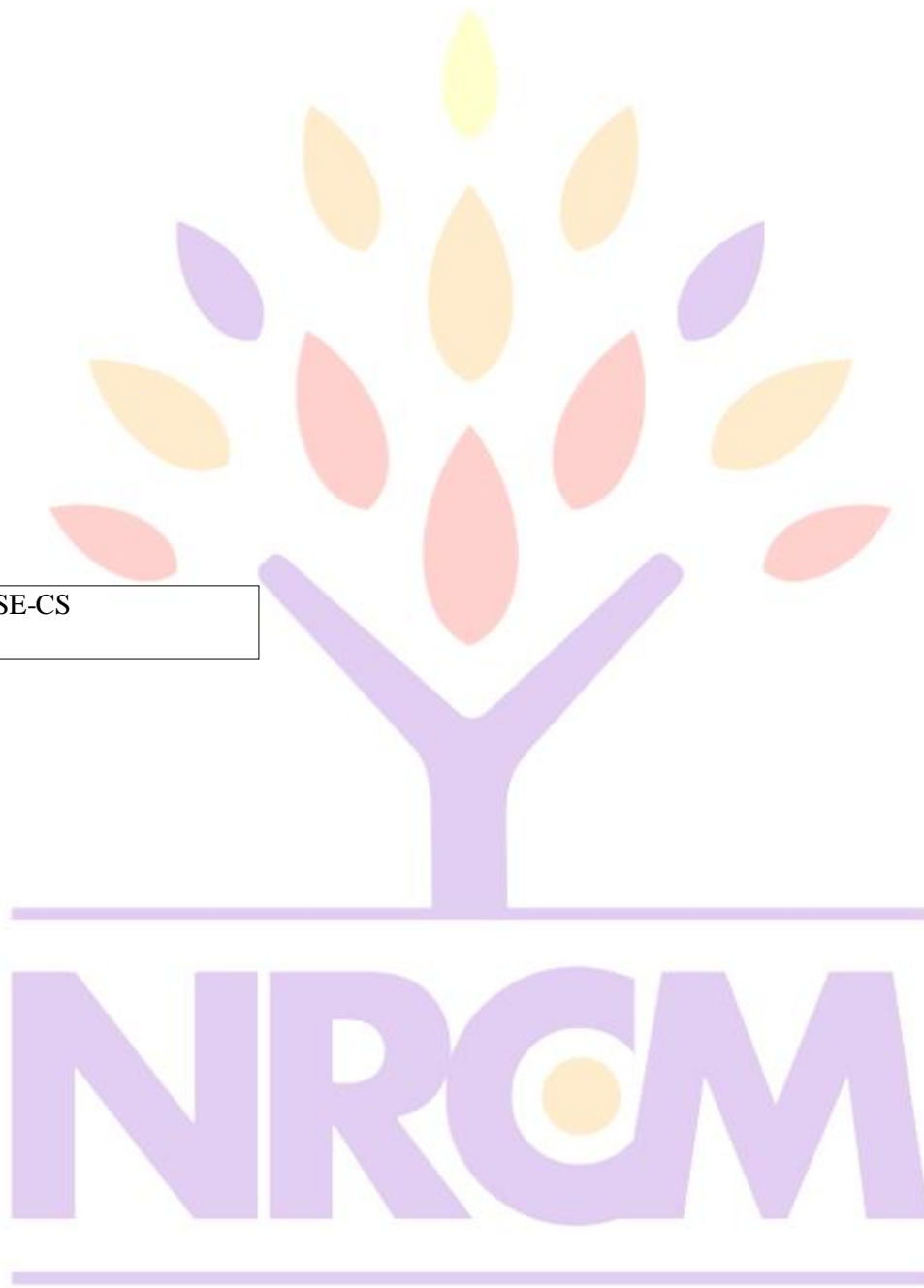
TEXT BOOKS:
1. Nelson Phillips and Enfinger Steuart, "Computer Forensics and Investigations", Cengage Learning, New Delhi, 2009.
2. Kevin Mandia, Chris Prosise, Matt Pepe, "Incident Response and Computer Forensics ", Tata McGraw -Hill, New Delhi, 2006.

REFFRENCE BOOKS:

1. Robert M Slade," Software Forensics", Tata McGraw - Hill, New Delhi, 2005.
2. 2. Bernadette H Schell, Clemens Martin, "Cybercrime", ABC – CLIO Inc, California, 2004.
3. 3. "Understanding Forensics in IT ", NIIT Ltd, 2005

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