



**KALLAM HARANADHAREDDY
INSTITUTE OF TECHNOLOGY**



I.T - EPITOME

YEAR : 2023-24 VOL : 2



**DEPARTMENT OF
INFORMATION TECHNOLOGY**



I.T - EPITOME



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DEPARTMENT VISION

To emerge as a hub of excellence in Information Technology by producing technically proficient and ethically strong IT professionals to meet the evolving needs of industry and society.

DEPARTMENT MISSION

1. To deliver quality instruction in Information Technology through competent faculty and state-of-the-art laboratories and preparing graduates for successful careers in I.T enabled services.
2. To empower students with a socially relevant and industry-oriented curriculum, supported by innovative teaching methods and an outcome based evaluation process.
3. Equip students with the skills and knowledge to excel in professional careers, pursue higher education, and launch successful entrepreneurial ventures.
4. Instill in students strong ethical values, a sense of responsibility, and a commitment to using their IT skills for the betterment of society and the environment.
5. To collaborate with top institutes and industries to derive research and innovation, making the department as center for R&D.

PROGRAMME EDUCATIONAL OBJECTIVES

1. The graduates are able to possess strong foundation in core Information Technology principles enabling them to pursue successful careers in the IT industry and contribute effectively to the advancement of technology and society.
2. The graduates are able to apply analytical and computational techniques to design, implement, evaluate and maintain IT based solutions that are technically proficient, economically feasible and socially acceptable.

3. The graduates are able to Communicate effectively, demonstrate professionalism, collaboration, ethical attitude, team spirit and pursue lifelong learning to achieve career, organizational and societal goals.

PROGRAMME SPECIFIC OUTCOMES

PSO 1: Apply core principles and concepts of Information Technology to analyze and design solutions for complex engineering and societal problems.

POS 2: Integrate knowledge of emerging technologies, programming languages, web programming, and modern tools to design and develop IT-based solutions.

PO 3: Develop skills through experiential learning to foster innovation and entrepreneurship.

CONTENTS

- **TECH INSIGHTS**
- **STUDENT ACHIEVEMENTS**
- **UPSKILLING & CERTIFICATIONS**
- **FACULTY ACHIEVEMENTS**
- **INVITED TALKS**
- **ITFT STUDENT CHAPTER ACTIVITIES**

1. TECH INSIGHTS

ZERO TRUST FRAMEWORK

With the growth in remote work, cloud adoption, and connected devices, organizations today face an increasingly hostile threat landscape in cybersecurity. The sheer volume and sophistication of attacks—ranging from AI-driven malware, ransomware-as-a-service, and deep fake-based social engineering, to alarming increases in supply chain breaches—have placed critical demands on businesses to safeguard sensitive data and maintain trust. In 2025, cyberattacks are costing businesses up to \$10.5 trillion, and 85% of organizations are ramping up security budgets, reflecting the urgent task of staying ahead of evolving threats.

To address these challenges, organizations are deploying Zero Trust architectures, investing in AI-powered detection tools, and preparing for quantum computing threats with post-quantum cryptography.

Zero Trust Architecture (ZTA) is a modern cybersecurity approach built on the principle of *"never trust, always verify."* Unlike traditional security models that assume everything inside an organization's network is trustworthy, Zero Trust assumes that no user, device,

or application should be trusted by default, regardless of whether it's inside or outside the network perimeter.

Zero Trust works on the idea of "never trust, always verify." This means that whenever a person or device tries to access data or applications, the system does not assume they are safe just because they are inside the network. Instead, it first checks their identity (like username, password, OTP, or fingerprint), verifies the device (whether it is secure and up to date), and looks at the context (such as location or role). Once everything matches, the system gives them only the minimum access needed and for a limited time. Even after access is allowed, the system keeps monitoring their activities in real time. If anything suspicious happens, access can be blocked immediately. This way, even if an attacker manages to get inside, they cannot move freely or cause much damage. Various advantages of Zero Trust Architecture (ZTA) are listed below:

- Stronger Security
- Supports remote work and cloud
- Better Visibility
- Data Protection

- Adaptive Security

Challenges

- Complex Implementation
- High initial cost
- Integration Issues
- Scalability Issues
- Performance Overhead

Zero Trust is a modern security approach that ensures continuous verification and least-privilege access to protect critical data. In today's digital world, adopting Zero Trust is essential for building a secure and resilient organization.

By: P. CHUSHMA (208X1A1228)

2. STUDENT ACHIEVEMENTS

2.1.1 ACADEMIC EXCELLENCE

- **MADDIKUNTA PRIYANKA (208X1A1219)**, secured department highest SGPA of **8.61** in IV B.Tech I Semester Regular Examinations, Nov-2023 results.
- R20 IV B.Tech I Semester Students secured **92.31%** pass percentage in IV B.Tech I Semester Regular Examinations, Nov-2023 results.
- **SEKURI MANJU BHARGAVI (218X1A1232)**, secured department highest SGPA of **8.53** in III B.Tech I Semester Regular Examinations, Nov-2023 results.
- **K V V N S R GOWTHAM (228X1A1212)**, secured department highest SGPA of **9.02** in II B.Tech I Semester Regular Examinations, Dec-2023 results.
- **SHAIK SOHEL (218X1A1237)**, secured **first place** in **Technical Presentation Event-QISFEST 2024**, held on 7th – 9th January 2024 at QIS Educational Institutions, Ongole.

2.1.2 PLACEMENTS

S.NO	STUDENT NAME	ROLL NO	COMPANY DETAILS	OFFERED ROLE	PACKAGE	DATE OF SELECTION
1	ASWADHATI CHANDRALEKHA	208X1A1203	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
2	IDAPALAPATI VIGNESWARI	208X1A1207	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
3	GONTLA VASAVI SINDHU	208X1A1210	Qspiders, Hyderabad	QA Engineer & Software Developer	3.60LPA	30.03.2024
4	HARIKA TADIBOYINA	208X1A1211	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
5	KADIYALA DIVYASRI	208X1A1213	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024

6	KANADAM NAGAGANESH	208X1A1214	PENTAGON SPACE, Bangalore	Software Engineer Trainee	3.60LPA	18.04.2024
7	MADDIKUNTA PRIYANKA	208X1A1219	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
8	NAKKA DHANALAKSHMI	208X1A1223	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
9	PEYYETI CHUSHMA	208X1A1228	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
10	PODILI SUNIL GOPI	208X1A1229	Sutherland Global Services, Chennai	Process Associates	3LPA	15-02-2024
11	PULI SAI BHANU MANASA	208X1A1230	Sutherland Global Services, Chennai	Process Associates	3LPA	15-02-2024
12	RAJ KUMAR PASUPULETI	208X1A1232	Sutherland Global Services, Chennai	Process Associates	3LPA	15-02-2024
13	SHAIK ASMATULLA	208X1A1236	ACMEGRADE, Bangalore	Business Development Associate	6LPA	27.04.2024
14	REBBANABOINA SRINIVASA RAO	208X1A1234	KODNEST, Bangalore	Process Associates	3LPA	09.02.2024
15	SHAIK SHAHEENA	208X1A1237	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
16	SHAIK SOHAIL	208X1A1238	KODNEST, Bangalore	Process Associates	3LPA	09.02.2024
17	YAMANI HEMA NANDINI	208X1A1239	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
18	BOMMISSETTI UMA SANKAR	208X1A1241	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
19	GOPISETTY THULASI MADHAV	208X1A1244	Allsec Technologies, Chennai	Technical Executive	2.80LPA	27.01.2024
20	KALLAM YASVANTH VEERA REDDY	208X1A1247	KODNEST, Bangalore	Process Associates	3LPA	09.02.2024

3. UPSKILLING & CERTIFICATIONS

- R20 IV B.Tech II Semester- 65 students completed **Industry Oriented long internship**.
- R20 IV B.Tech II Semester- 65 students completed their academic project works successfully.
- R20A II B.Tech II Semester- 64 students completed **SEC-II Course: Certification Course on Python Programming** offered through CodeTantra.
- R20A III B.Tech II Semester- 7 Students completed **“Microprocessors and Microcontrollers”** offered through **SWAYAM/NPTEL** during Jan-April 2024.

4. FACULTY ACHIEVEMENTS

- Dr.MD.Sirajuddin and Mrs.K.Himabindu, presented a research article titled ***"A Novel Secure Framework Based on Trust Based Routing and Lightweight Cryptographic Scheme to Ensure Secure Communication in WSN"***, in International Conference on Artificial Intelligence and Its Emerging Areas- 2K24, organized by the department of CSE, Narasaraopeta Engineering College during 12th -13th April 2024.
- Dr.MD.Sirajuddin and Mrs.K.Himabindu, published a research article titled ***"A Novel Secure Framework Based on Trust Based Routing and Lightweight Cryptographic Scheme to Ensure Secure Communication in WSN"***, in Industrial Engineering Journal, Vol.53, Issue 5, May 2024.

5. INVITED TALKS

- Invited talk ***"Core Programming in Python Quiz Competition"*** was organized on 15.03.2024 by IASPIRE.
- Organized Career talk on ***"Effective Communication Skills for Cracking the Interviews"***, on 16.03.2024, delivered by Piyush Ghosal, Associate General Manager, Josh Software.
- A webinar on ***"How to Prepare for Placement Opportunities"*** was organized on 26.04.2024, Biswaprakash Kar, Senior Consultant, Palladium, acted as a resource person.

6. ITFT STUDENT CHAPTER ACTIVITIES

- Organized an Alumni Talk titled ***"How to Grab Opportunities in Dream and Super Dream Companies"***, on 02.01.2024, delivered by Ms. Nandini, Software Engineer at HCL Technologies, who shared valuable insights and strategies for career advancement.
- ITFT Organized a Seminar on ***"Time Series Analysis"*** on 15.03.2024, Dr.K.Nagaraju, Associate Professor, IIITDM, Kurnool, acted as a resource person.
- Organized a **Group Discussion Session** on 22.03.2024.





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