



**GRT INSTITUTE OF
ENGINEERING AND
TECHNOLOGY, TIRUTTANI - 631209**

Approved by AICTE, New Delhi Affiliated to Anna University



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CISCO LAB

Initiatives related to industry interaction Industry interactions help students acquire practical knowledge. To improve the technical abilities, various industrial activities are carried out. The department has taken the initiative for establishing and nurturing good relations with the industry. Entered into MoUs with industries to strengthen interaction with industries and to keep our students updated with the latest trends being followed in the industry. The following list of courses is conducted for our students through **CISCO Academy. NetAcad support for our academy is Amrita Vishwa Vidyapeetham (Deemed to be University)-ITC/ASC (6909)-Coimbatore.**

Sl. No	Course Name	Instructor Name	Industry Associated	Duration	Topics Covered
1	CCNA- Introduction to Network	S. SENTHILKUMAR	CISCO	17 th January – 17 th April 2022(Ongoing)	<ul style="list-style-type: none"> • Basic Network Connectivity and Communications • Ethernet Concepts & IP Addressing • Communicating Between Networks • Network Application Communications • Building and Securing a Small Network
2.	Introduction to Packet Tracer	S. SENTHILKUMAR & JAGADEESH K	CISCO	15 th April – 15 th July 2021	<ul style="list-style-type: none"> • Deploying and Cabling Devices • Create a Simple Network Using Packet Tracer • Deploying and configuring • Packet Tracer Physical View • Adding IoT devices to Smart Homes • Connect and Monitor IoT Devices • Modify and Monitor Environmental Controls • Create Your Own Thing
3.	Introduction to Cyber security	S. SENTHILKUMAR & JAGADEESH K	CISCO	15 th April – 15 th July 2021	<ul style="list-style-type: none"> • Backup Data to External Storage • Create and Store Strong Passwords • Explore Social Engineering Techniques • Discover Your Own Risky Online Behaviour • Cybercrime or Cyberwarfare

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4	Cyber security Essentials	S. SENTHILKUMAR & JAGADEESH K	CISCO	15 th April – 15 th July 2021	<ul style="list-style-type: none"> Threat identification & Communicating in a Cyber World Authentication Authorization Accounting Exploring File and Data Encryption Using File and Data Integrity Checks Using Steganography & Digital Signatures Configuring VPN Transport Mode Router and Switch Resilience Server Firewalls and Router ACLs
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Sample Certificates:



Cisco Networking Academy

Introduction to Packet Tracer

For completing the Cisco Networking Academy® Introduction to Packet Tracer course.

Logeshwer V

Student

GRT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Academy Name

India

Location

31 May 2021

Date

SENTHILKUMAR SWAMINATHAN

Instructor

Instructor Signature



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Cisco Networking Academy

Certificate of Course Completion

Cybersecurity Essentials

For completing the Cisco Networking Academy® Cybersecurity Essentials course, and demonstrating the following abilities:

- Describe the tactics, techniques and procedures used by cyber criminals.
- Describe the principles of confidentiality, integrity, and availability as they relate to data states and cybersecurity countermeasures.
- Describe technologies, products and procedures used to protect confidentiality, ensure integrity and provide high availability.
- Explain how cybersecurity professionals use technologies, processes and procedures to defend all components of the network.
- Explain the purpose of laws related to cybersecurity.

YAMINI S P

Student

GRT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Academy Name

India

Location

20 May 2021

Date

SENTHILKUMAR SWAMINATHAN

Instructor

Instructor Signature



Cisco Networking Academy

Certificate of Course Completion

Introduction to Cybersecurity

For completing the Cisco Networking Academy® Introduction to Cybersecurity course, and demonstrating the ability to explain the following:

- Global implications of cyber threats
- Ways in which networks are vulnerable to attack
- Impact of cyber-attacks on industries
- Cisco's approach to threat detection and defense
- Why cybersecurity is a growing profession
- Opportunities available for pursuing network security certifications

SNEHA R

Student

GRT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Academy Name

India

Location

26 May 2021

Date

SENTHILKUMAR SWAMINATHAN

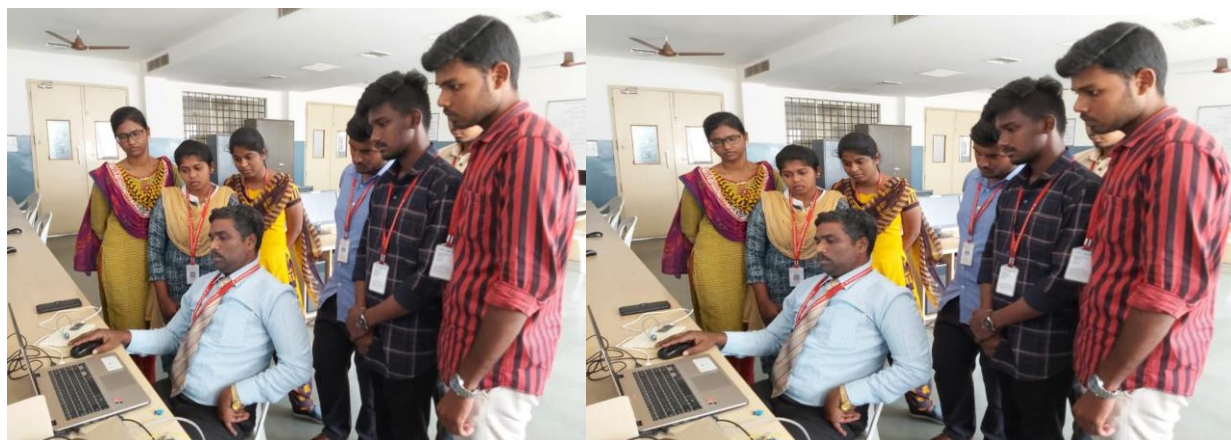


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IoT Lab

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Sl.No	Course Name	Instructor Name	Industry Associated	Duration	Topics Covered
1	IOT LAB	C.E.MOHAN KUMAR	ADVANTECH INSTRUMENTS ,CHENNAI	20-12-21 TO 30-12-21 AND 30.3.22 to ongoing	<ul style="list-style-type: none">➤ Introduction to Arduino platform and programming➤ Interfacing Sensors and Actuators with Hardware➤ Interfacing Arduino to Zigbee module➤ Interfacing Arduino to GSM module➤ Interfacing Arduino to Bluetooth Module➤ Introduction to Raspberry PI platform and python programming➤ Interfacing sensors to Raspberry PI





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LABVIEW

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S. No	Course Name	Instructor Name	Industry Associated	Duration	Topics Covered
1	Module-IV	Mr.C.Augustine	Ni-Labview	21 th March – 25 th March 2022	<ul style="list-style-type: none"> • Data Acquisition Through Virtual Instrumentation • Developing Signal Generator Using Daq Card • Developing Voltmeter Using Daq Card • Real Time Temperature Control Using Virtual Instrumentation • Instrumentation Of An Amplifier To Acquire A Bio Signal
2.	Module-III	Mr.C.Augustine	Ni-Labview	11 th October – 15 th October 2021	<ul style="list-style-type: none"> • Signal Filtering Technique • Signal Windowing Technique • Basic Signal Transforms • Statistical Analysis Of Data • Creating Virtual Instrumentation For Simple Signal Processing Application
3.	Module-II	Mr.C.Augustine	Ni-Labview	22 nd February – 26 th February 2021	<ul style="list-style-type: none"> • Basics Of Virtual Signal Processing Tools • Signal Generation And Aliasing Effect • Spectrum Analysis Of Basic Signals • Curve Fitting Technique • Basic Matrix Manipulation
4	Module-I	Mr.C.Augustine	Ni-Labview	04 th January – 02 nd March 2020	<ul style="list-style-type: none"> • Labview Programming Basics • Basic Arithmetic And Boolean Operations • Programming Exercises For Loops And Charts • Programming Exercises For Clusters And Graphs • Programming Exercises On Case And Sequence Structures, File Input/Output



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