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Hirasugar Institute of Technology, Nidasoshi.

Inculcating Values, Promoting Prosperity

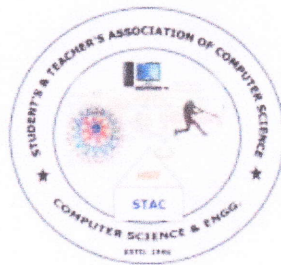
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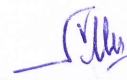
Programmes Accredited by NBA: CSE, ECE, EEE & ME

Department of Computer Science and Engineering

**A
Report
Of
20 Hours Online Certification Course
On
Introduction to IoT
By
Cisco Networking Academy**




Prof. Ravindra R. Patil
Activity Incharge


Prof. S. V. Majaragi
HOD

(2020-21)



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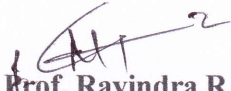
CSED
Certification Course
Student List
2020-21 (Even Sem)

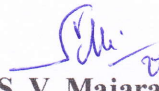
20 Hour Certification Course Completion Student List

Semester : VI
 Course : Introduction to IoT
 Course Coordinator : Prof. Ravindra R. Patil

Date: 25-07-2021

Sl. No.	USN	Name of Student
1	2HN18CS001	AISHWARYA GUNDOLI
2	2HN18CS002	AMOGHA M DESAI
3	2HN18CS003	ANUSHA B.AMBIGER
4	2HN18CS006	GAYATRI ANNASAB PATIL
5	2HN18CS010	KARTIK THAKKANNAVAR
6	2HN18CS011	KASHIM JAKATI
7	2HN18CS012	KEERTI MAVINAGIDAD
8	2HN18CS013	MAHIMA S. PURANIK
9	2HN18CS014	MOHAMMEDAKRAM MUJAWAR
10	2HN18CS015	POOJA ISHWAR BANGI
11	2HN18CS016	PRAJWAL S.HONASHETTI
12	2HN18CS017	PRAVEEN GADIWADDAR
13	2HN18CS018	PRIYANKA BORAGALLI
14	2HN18CS019	RAJESHWARI B.HOSAMANI
15	2HN18CS021	RIYAJ DILAWAR NADAF
16	2HN18CS023	ROOPALI RAKESH PANAKE
17	2HN18CS024	SABIYAKHATUN YASIN SAIYAD
18	2HN18CS025	SACHIN RAMESH WASEDAR
19	2HN18CS026	SHILPA SANJEEV KAGE
20	2HN18CS027	SHOIB M.BAGWAN
21	2HN18CS028	SHRADDHA JANAMATTI
22	2HN18CS029	SHREYA ARUN DIWAN
23	2HN18CS030	SHREYA S.NEELAKARI
24	2HN18CS031	SHRUTI BIRADAR
25	2HN18CS032	SHRUTI KHOT
26	2HN18CS033	SMITA MANOLI
27	2HN18CS034	SRAJAN POOJARY
28	2HN18CS037	SUDHARANI BASAVARAJ KURANI
29	2HN18CS038	SUFIYAN BAGWAN
30	2HN18CS039	SWATI PATIL
31	2HN18CS042	VARSHITA M DODDAKALLANNAVAR
32	2HN18CS043	VIDYASHREE PUJARI
33	2HN18CS044	VINAYAK HIREMATH
34	2HN18CS045	VISHAKHA VIJAY NESARI
35	2HN19CS400	SNEHA PATIL
36	2HN17CS025	SHIPURE RAHUL RAOSAHEB
37	2HN17CS026	SHIVASHANKAR


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CSE Dept.

STAC

Activity Report

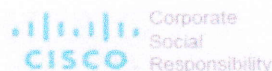
2020-21 (Even)

Activity Report

Date and Time	11th June 2021 to 24th June 2021
Name of Activity	"Course on Introduction to IoT"
Type of Activity	20 hour Certification Course by Cisco Networking Academy
Target Audience	6th Semester Students
Number of Audience	37
Activity Incharge	Prof. Ravindra R. Patil

About the Activity: Objectives of the program is to understand the basics of IoT and importance of IoT for subject which they are going to study in coming semester. This 20 Hours online Course consist of total 6 chapters and at the end of every chapter there was one Quiz, in this student has to score minimum marks for writing end exam which is of 100Marks after successful completion of all Quiz's and End Exam students are issued with Certificates. Total 37 students have taken the course out of 46 and all have completed the course successfully.

The screenshot displays the Cisco Networking Academy interface for the 'Introduction to IoT' course. It shows a progress bar for each of the six chapters, indicating that all chapters are completed. A quiz question is visible, asking 'Which element of the SDN model orchestrates policies and configures systems?' with options: assurance, transition, physical and virtual infrastructure, and automation. The correct answer is 'automation'.



Certificate of Course Completion

Cisco Networking Academy

Introduction to IoT

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

- Explain how IoT and Digital Transformation are positively impacting businesses and governments.
- Explain the importance of software and data for digital businesses and society.
- Explain the benefits of automation and artificial intelligence for digital transformation.
- Explain the concepts of Intent Based Networking.
- Explain the need for enhanced security in the digitized world.

*Laura Quintana*Laura Quintana
VP & General Manager, Cisco Networking Academy**Kartik Thakkannavar**Student
16 Jun 2021

Date



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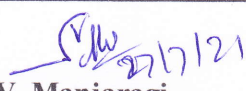
CSE Dept.


STAC

Activity Report


2020-21 (Even)

Sl. No.	Objective of the Activity	Relevance to POs
1	To apply appropriate techniques on modern engineering and IT tools, understand the impact of the professional engineering solutions in societal and environmental contexts using IoT, function effectively in multidisciplinary projects using IoT & demonstrate knowledge and understanding of the engineering and apply this to one's own work.	PO5,PO6,PO7,PO9, PO11



Prof. S.V. Manjaragi
HOD




Course Home



Grades




Messages





Calendar


Introduction to IoT 0321 wr

Your progress 


Introductory Chapter





 First Time in This Course

 Student Support and Resources


Introduction to IoT - Chapter 1

 Read Chapter 1: Everything is Connected


 Chapter 1: Terms and Concepts Practice


 Chapter 1 Quiz


Due 27 September 2021, 12:30 PM




Introduction to IoT - Chapter 2

 Read Chapter 2: Everything Becomes Programmable


 Chapter 2: Terms and Concepts Practice


 Chapter 2 Quiz


Due 27 September 2021, 12:30 PM




Introduction to IoT - Chapter 3

 Read Chapter 3: Everything Generates Data

 Chapter 3: Terms and Concepts Practice

 Chapter 3 Quiz

Due 27 September 2021, 12:30 PM





Introduction to IoT - Chapter 4

https://lms.netacad.com/course/view.php?id=411623

1/2

 [Read Chapter 4: Everything can be Automated](#)

 [Chapter 4: Terms and Concepts Practice](#)


 [Chapter 4 Quiz](#)
Due 27 September 2021, 12:30 PM




Introduction to IoT - Chapter 5



 [Read Chapter 5: Everything Needs to be Secured](#)

 [Chapter 5: Terms and Concepts Practice](#)


 [Chapter 5 Quiz](#)
Due 27 September 2021, 12:30 PM




Introduction to IoT - Chapter 6



 [Read Chapter 6: Educational and Business Opportunities](#)

 [Chapter 6: Terms and Concepts Practice](#)

 [Chapter 6 Quiz](#)
Due 27 September 2021, 12:30 PM



End of Course Feedback



 [End of Course Feedback](#)



End of Course Assessment



Restricted

 Not available unless: The activity **End of Course Feedback** is marked complete




Certificate of Completion



Restricted

 Not available unless: The activity **Final Exam** is marked complete

Activities

-  [External tools](#)
-  [Quizzes](#)
-  [Resources](#)

Find answers to many of your Networking Academy questions:

[NetAcad Virtual Assistant](#)

Upcoming events

There are no upcoming events

[Go to calendar...](#)

[Reset user tour on this page](#)



Course Home



Grades



Messages



Calendar

Introduction to IoT 0321 wr

Read Chapter 1: Everything is Connected

Introduction to the Internet of Things

Chapter 0
Course Introduction

Section 1.0
Introduction

Topic 1.0.1
Introduction

Page 1.0.1.1
Introduction

Chapter 1
Everything is Connected

Section 1.1
Digital Transformation

Chapter 2
Everything Becomes Programmable

Section 1.2
Devices that Connect to the IoT

Chapter 3
Everything Generates Data

Section 1.3
Summary

Chapter 4
Everything Can be Automated

Chapter 5
Everything Needs to be Secured

◀ Student Support and Resources

Jump to...

Chapter 1: Terms and Concepts Practice



Course Home



Grades



Messages



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Introduction to IoT 0321 wr

Read Chapter 1: Everything is Connected

Introduction to the Internet of Things

Chapter 0
Course Introduction

Section 2.0
Introduction

Chapter 1
Everything is Connected

Section 2.1
Apply Basic Programming to Support IoT Devices

Chapter 2
Everything Becomes Programmable

Section 2.2
Prototyping Your Idea

Chapter 3
Everything Generates Data

Section 2.3
Summary

Chapter 4
Everything Can be Automated

Chapter 5
Everything Needs to be Secured

◀ Student Support and Resources

Jump to...

Chapter 1: Terms and Concepts Practice



Course Home



Grades



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Introduction to IoT 0321 wr

Read Chapter 1: Everything is Connected

Introduction to the Internet of Things

Chapter 0
Course Introduction

Chapter 1
Everything is Connected

Chapter 2
Everything Becomes Programmable

Chapter 3
Everything Generates Data

Chapter 4
Everything Can be Automated

Chapter 5
Everything Needs to be Secured

Section 3.0
Introduction

Section 3.1
Big Data

Section 3.2
Summary

CISCO Networking Academy

◀ Student Support and Resources

Jump to

Chapter 1: Terms and Concepts Practice



Course Home



Grades



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Calendar

Introduction to IoT 0321 wr

Read Chapter 1: Everything is Connected

Introduction to the Internet of Things

Chapter 0
Course Introduction

Chapter 1
Everything is Connected

Chapter 2
Everything Becomes Programmable

Chapter 3
Everything Generates Data

Chapter 4
Everything Can be Automated

Chapter 5
Everything Needs to be Secured

Section 4.0
Introduction

Section 4.1
What Can be Automated?

Section 4.2
Summary

CISCO Networking Academy

◀ Student Support and Resources

Jump to

Chapter 1: Terms and Concepts Practice



Course Home

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Introduction to IoT 0321 wr

Read Chapter 1: Everything is Connected

Introduction to the Internet of Things

Chapter 0

Course Introduction

Section 5.0

Introduction

Chapter 1

Everything is Connected

Section 5.1

Security in the Digitized World

Chapter 2

Everything Becomes Programmable

Section 5.2

Summary

Chapter 3

Everything Generates Data

Chapter 4

Everything Can be Automated

Chapter 5

Everything Needs to be Secured



◀ Student Support and Resources

Jump to...

Chapter 1: Terms and Concepts Practice



Course Home

Grades

Messages

Calendar

Introduction to IoT 0321 wr

Read Chapter 1: Everything is Connected

Introduction to the Internet of Things

Chapter 1

Everything is Connected

Section 6.0

Introduction

Chapter 2

Everything Becomes Programmable

Section 6.1

Where Can I Go from Here?

Chapter 3

Everything Generates Data

Section 6.2

Summary

Chapter 4

Everything Can be Automated

Chapter 5

Everything Needs to be Secured

Chapter 6

Educational and Business Opportunities



◀ Student Support and Resources

Jump to...

Chapter 1: Terms and Concepts Practice

Course
Home

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Calendar

Introduction to IoT 0321 wr

Started on	Tuesday, 8 June 2021, 3:48 PM
State	Finished
Completed on	Tuesday, 8 June 2021, 3:56 PM
Time taken	8 mins 39 secs
Marks	30.00/30.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 2.00 out of 2.00

Which tool allows a user to simulate real networks?

Select one:

- ☐ artificial intelligence
- ☒ Packet Tracer ✓
- ☐ internet
- ☐ PAN

Refer to curriculum topic: 1.1.1
Packet Tracer is a free network simulation and visualization tool.
The correct answer is: Packet Tracer

Question 2

Correct

Mark 2.00 out of 2.00

Which type of computing is located at the edge of a business or corporate network and that allows data from sensors to be preprocessed?

Select one:

- ☐ WAN
- ☐ wireless
- ☒ fog ✓
- ☐ internet

Refer to curriculum topic: 1.1.2
Fog computing contains servers and intelligence that allows data from sensors to be preprocessed and available for immediate use and sent into the cloud for more in-depth analysis.
The correct answer is: fog

Question 3

Correct

Mark 2.00 out of 2.00

Which command is used to test network connectivity and provide a response to each packet received by the remote host?

Select one:

- ☐ **tracert**
- ☐ **connect**
- ☐ **text**
- ☒ **ping** ✓

Refer to curriculum topic: 1.1.2
The **ping** and **tracert** commands are both used to test connectivity. The **ping** command is used to test connectivity from one network device to another network device. The **tracert** command is used to trace a route from the source network device to another network device.
The correct answer is: **ping**

Question **4**

Correct

Mark 2.00 out of 2.00

Which type of network is used to connect a company located in one area of a city to another location in a city far away?

Select one:

- ☐ MAN
- ☐ PAN
- ☐ LAN
- ☒ WAN ✓

Refer to curriculum topic: 1.1.2

Wide-area networks (WANs) provide inter-LAN connectivity between sites.

The correct answer is: WAN

Question **5**

Correct

Mark 2.00 out of 2.00

Which type of wireless network is used to connect devices within a city to create a metropolitan-area network (MAN)?

Select one:

- ☐ ZigBee
- ☐ Bluetooth
- ☐ LTE
- ☒ WiMAX ✓

Refer to curriculum topic: 1.1.2

WiMAX uses the IEEE 802.15 standard to create a metropolitan-area network (MAN) within a city. Bluetooth and ZigBee are used to create a personal-area network (PAN) and LTE is used in a cellular network.

The correct answer is: WiMAX

Question **6**

Correct

Mark 2.00 out of 2.00

True or False?

The Internet of Things will connect inanimate objects to the network with intelligent sensors.

Select one:

- ☒ true ✓
- ☐ false

Refer to curriculum topic: 1.2.1

The correct answer is: true

Question **7**

Correct

Mark 2.00 out of 2.00

What allows digital devices to interconnect and transmit data?

Select one:

- ☐ a global positioning sensor
- ☒ a network ✓
- ☐ a sensor
- ☐ a smart phone

Refer to curriculum topic: 1.1.1

A network connects people and devices through wired or wireless means.

The correct answer is: a network

Question **8**

Correct

Mark 2.00 out of 2.00

What information is conveyed by the SSID that is configured on an IoT device?

Select one:

- ☐ the registration server
- ☒ the wireless network ✓
- ☐ the home gateway
- ☐ the default gateway

Refer to curriculum topic: 1.2.2

The SSID is used to identify the name of the wireless network which a device can join.

The correct answer is: the wireless network

Question **9**

Correct

Mark 2.00 out of 2.00

What is needed in a smart home to connect sensors and smart devices to a network?

Select one:

- ☒ home gateway ✓
- ☐ Packet Tracer
- ☐ Bluetooth
- ☐ internet connection

Refer to curriculum topic: 1.2.1

In a smart home, IoT devices connect to the network through a home gateway device.

The correct answer is: home gateway

Question **10**

Correct

Mark 2.00 out of 2.00

True or False?

Once connected to the home gateway, smart devices can be controlled from a smartphone, tablet, or PC.

Select one:

- ☐ false
- ☒ true ✓

Refer to curriculum topic: 1.2.2

The correct answer is: true

Question **11**

Correct

Mark 2.00 out of 2.00

What type of device could allow a refrigerator to place a replacement order for an item contained within it?

Select one:

- ☐ smart phone
- ☒ sensor ✓
- ☐ generator
- ☐ digital network

Refer to curriculum topic: 1.1.1

Sensors can be used to detect motion, water levels, light levels, temperature, and other measurements such as the weight of the milk carton within a smart refrigerator that could place a replacement order for the milk.

The correct answer is: sensor

Question **12**

Correct

Mark 2.00 out of 2.00

What is a sensor?

Select one:

☐ anything that stores data

☐ the foundation of the digitized world

☒ a device that detects or measures an event or physical property

☐ something that provides products and services to customers through an internet connection

Refer to curriculum topic: 1.1.1
Sensors detect or measure and send that data to be processed and analyzed. Sensors can detect motion, water levels, light levels, temperature, and color.
The correct answer is: a device that detects or measures an event or physical property

Question **13**

Correct

Mark 2.00 out of 2.00

What is comprised of millions of smart devices and sensors connected to the internet?

Select one:

☐ the data center

☒ the Internet of Things

☐ the fog

☐ the cloud

Refer to curriculum topic: 1.2.1
The Internet of Things (IoT) consists of millions of smart devices and sensors connected to the Internet. The devices and sensors in the IoT collect and share data for use by business, cities, governments, hospitals and individuals.
The correct answer is: the Internet of Things

Question **14**

Correct

Mark 2.00 out of 2.00

True or False?

The Internet of Things can help organizations improve the efficiency and productivity of manufacturing processes and operations.

Select one:

☒ true

☐ false

Refer to curriculum topic: 1.2.1
The correct answer is: true

Question **15**

Correct

Mark 2.00 out of 2.00

What is the core component of Intent-Based Networking?

Select one:

☐ fog computing

☐ the internet

☒ artificial intelligence

☐ the cloud

Refer to curriculum topic: 1.2.2
Artificial intelligence will allow Intent-Based Networking to automatically configure network device across the network to fulfill network requirements based on the intent of those requirements.
The correct answer is: artificial intelligence



Course
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Messages



Calendar

Introduction to IoT 0321 wr

Question **1**

Not yet
answered

Marked out of
2.00

What is a Cisco developer program community that allows the user to learn, connect, inspire, and code and consists of coordinated developer tools, and sandboxes?

Select one:

- ☐ DevNet
- ☐ IEEE
- ☐ LinkedIn
- ☐ Cisco Learning Network

Question **2**

Not yet
answered

Marked out of
2.00

Which IoT-related job would deal with the development and implementation of the underlying technologies within the digital world?

Select one:

- ☐ **engagers**
- ☐ **educators**
- ☐ **enhancers**
- ☐ **enablers**

Question **3**

Not yet
answered

Marked out of
2.00

How many students have been trained through Cisco Networking academies to date?

Select one:

- ☐ 5 million
- ☐ half a billion
- ☐ half a million
- ☐ 1 million

Question **4**

Not yet
answered

Marked out of
2.00

Which series of Cisco Networking Academy courses is designed to develop skills for securely collecting data, connecting sensors to the cloud, and analyzing big data?

Select one:

- ☐ Introduction to Cybersecurity
- ☐ IoT Fundamentals
- ☐ CCNA Security
- ☐ Entrepreneurship

Question **5**

Not yet
answered

Marked out of
2.00

How many countries have Cisco Networking Academies helping individuals prepare for industry-recognized certifications and mastering IT skills?

Select one:

- ☐ 100
- ☐ 200
- ☐ 80
- ☐ 180

Question **6**

Not yet
answered

Marked out of
2.00

Which IT community is a collection of resources designed for people who wish to develop skills and pursue a Cisco certification?

Select one:

- ☐ IEEE
- ☐ Cisco Learning Network
- ☐ DevNet
- ☐ LinkedIn

Question **7**

Not yet answered

Marked out of 2.00

What is the primary focus of the CCNA Routing and Switching curriculum that is available through the Cisco Networking Academy?

Select one:

- ☐ It provides learners to have a comprehensive overview of networking concepts and skills.
- ☐ It teaches learners the fundamentals of computer hardware and software.
- ☐ The curriculum teaches learners how to connect sensors to the cloud, analyze big data, and securely collect data.
- ☐ It teaches learners critical business and financial skills and helps them develop an entrepreneurial mindset.

Question **8**

Not yet answered

Marked out of 2.00

What is the primary focus of the IoT fundamentals courses available through Cisco Networking Academy curriculum?

Select one:

- ☐ The courses teach learners how to connect sensors to the cloud, analyze big data, and securely collect data.
- ☐ They teach learners critical business skills, financial skills and helps them develop an entrepreneurial mindset.
- ☐ They teach learners to have a comprehensive overview of networking concepts and skills.
- ☐ They teach learners the fundamentals of computer hardware and software.

Question **9**

Not yet answered

Marked out of 2.00

What is the primary focus of the IT Essentials course available through the Cisco Academy curriculum?

Select one:

- ☐ It teaches learners to have a comprehensive overview of networking concepts and skills.
- ☐ It teaches learners the fundamentals of computer hardware and software.
- ☐ The course teaches learners how to connect sensors to the cloud, analyze big data, and securely collect data.
- ☐ It teaches learners critical business and financial skills and helps them develop an entrepreneurial mindset.

Question **10**

Not yet answered

Marked out of 2.00

True or False?

Even though IoT is considered an enabling technology, not all jobs created are IT-related.

Select one:

- ☐ true
- ☐ false

Final Exam Questions – CISCO Introduction to IoT

1. Which character is used within a search engine to gather data efficiently by placing the character before and after the name of a particular person?
2. Which two types of institutions do malicious web pages often look like? (Choose two.)
3. True or False? Comma-separated values (CSV), JSON, and XML are all tools that can be used to manipulate structured data.
4. What is an open-source physical computing platform that can take input from a variety of switches or sensors to control physical objects?
5. Which type of network consists of wired computers in a college classroom?
6. What is the largest network in existence?
7. What are three benefits of cloud computing? (Choose three.)
8. What are the two areas of physical security within a data center?
9. What is the core component of Intent-Based Networking?
10. Match the logic structure to the function.
11. What are two characteristics of the Python programming language? (Choose two.)
12. Which two data types would be classified as personally identifiable information (PII)? (Choose two.)
13. Which two skills help with IoT prototyping? (Choose two.)
14. What are two requirements to connect a smart device to a home wireless network? (Choose two.)
15. What is a key feature of the assurance element of the intent-based networking model?
16. A company requires using a secure encrypted internet connection when connecting to the corporate network from outside the company. Which technology should be used when employees travel and use a laptop?
17. Which security best practice involves defining company rules, job duties, and expectations?
18. What are three attributes of data that would indicate that it may be big data? (Choose three.)
19. Which technology has the intelligence that is demonstrated by machines in a way that mimics human cognitive functions?

20. What is the purpose of data analytics?
21. Mined data can be visualized through the use of charts. Select two criteria that can be used to determine the best chart selection. (Choose two.)
22. What device provides auto discovery services for smart devices that are connected to the network?
23. Which type of network is the connection between a Bluetooth headset and a vehicle?
24. Change will have to occur in the corporate network in order to prepare for the Internet of Things. Which type of testing would a company do to demonstrate the benefits of networking a new “thing” that was not on the network before?
25. What are two features of automation? (Choose two.)
26. What are two things that all digital devices need in order to work? (Choose two.)
27. What is used to provide IoT sensors with access to the network?
28. What is the purpose of Packet Tracer?
29. Which statement describes global variables in programming languages?
30. How is data that has been collected through sources such as web pages, audio, or tweets categorized?
31. What limits the types of different objects that can become intelligent sensors on the Internet of Things?
32. Which technology is a subset of AI that uses statistical techniques to enable computers to “learn” from collected data?
33. True or False? With artificial intelligence, smart devices can modify processes and settings on the fly in response to changes on the network.
34. Which technology is used as a visual programming tool to create a program by connecting colored blocks?

Introduction to IoT

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- Explain the benefits of automation and artificial intelligence for digital transformation.
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- Explain the need for enhanced security in the digitized world.



Laura Quintana
VP & General Manager, Cisco Networking Academy

Vishakha Nesari

Student

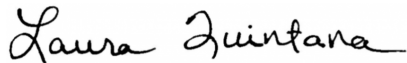
13 Jun 2021

Date

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Laura Quintana
VP & General Manager, Cisco Networking Academy

Vinayak Hiremath

Student

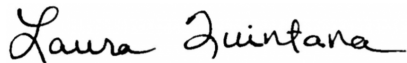
15 Jun 2021

Date

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Vidyashree Pujari

Student

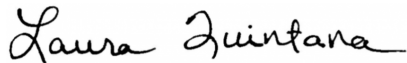
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Varshita Doddakallannavar

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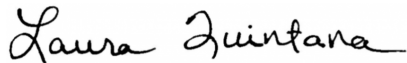
Swati Patil

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Sufiyan Bagwan

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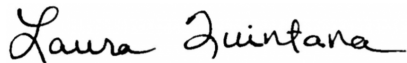
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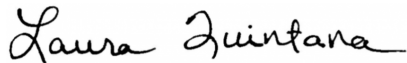
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Smita Manoli

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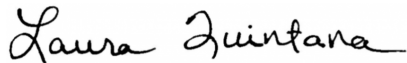
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Sudharani Kurani

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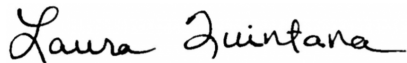
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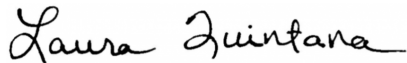
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Shreya Neelakari

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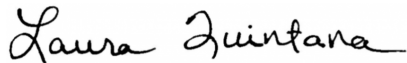
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Shreya Diwan

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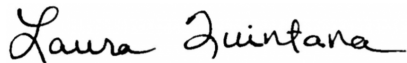
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Shraddha Janamatti

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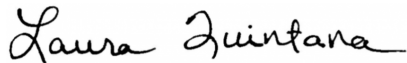
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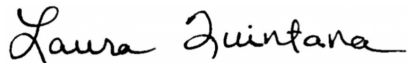
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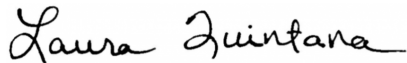
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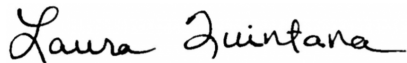
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Sabiyakhatun Saiyad

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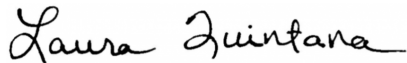
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Roopali Panake

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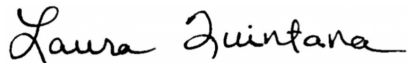
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Riyaj Nadaf

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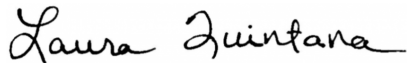
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Rajeshwari Hosamani

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Rahul Shipure

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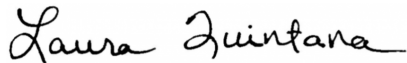
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Priyanka Boragalli

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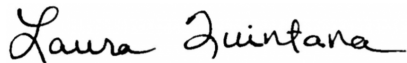
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Praveen Gadiwaddar

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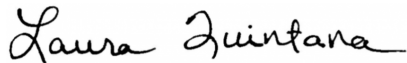
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Prajwal Honashetti

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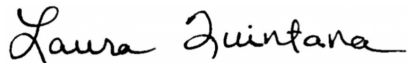
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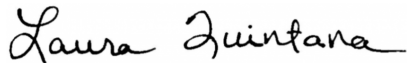
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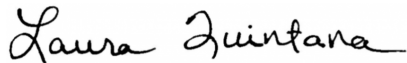
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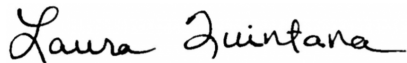
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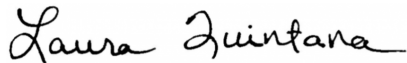
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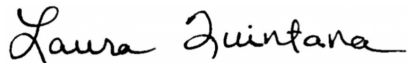
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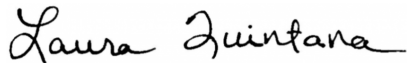
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Anusha Ambiger

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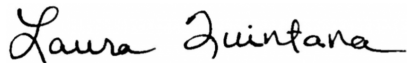
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