



MALLA REDDY ENGINEERING COLLEGE FOR WOMEN

(Autonomous Institution-UGC, Govt. of India)

Accredited by NBA & NAAC with 'A' Grade

Approved by AICTE, Affiliated to JNTUH, ISO 9001:2015 Certified Institution

Maisammaguda, Dhulapally, Secunderabad 500100.

AY 2019-20

S.No	Name of the Value-Added Course	Mode of the Course- offered by the HEI or Online	Number of students enrolled in the year	Number of Students completing the course in the year
1	Cisco CCNA RS Introduction to Networks through Cisco Networking Academy	Cisco Networking Academy Platform	322	313
2	Cisco Programming Essentials in C through Cisco Networking Academy	Cisco Networking Academy Platform	322	300
3	Cisco CCNA Exploration: Routing Protocols and Concepts	Cisco Networking Academy Platform	655	625
4	Cisco Linux Certification through Cisco Networking Academy	Cisco Networking Academy Platform	670	635
5	C FOR EVERYONE: Structured Programming	University of California, Santa Cruz-Coursera Platform	580	520
6	TCS ION CERTIFICATION ON "COMMUNICATION SKILLS"	TCS-ION Platform	430	402
7	TCS ION CERTIFICATION ON "EMAIL ETIQUETTE"	TCS-ION Platform	720	702
8	TCS ION CERTIFICATION ON "INTRODUCTION TO SOFT SKILLS"	TCS-ION Platform	322	315
9	Creating Database Tables with SQL	Coursera Project Network-Coursera Platform	619	604



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10	Machine Learning for ALL	University of London-Coursera Platform	420	407
11	Introduction and Programming with IoT Boards	Pohang University of Science and Technology-Coursera Platform	322	312
12	Introduction to Cyber Attacks	New York University-Coursera Attacks	420	400
13	Data Science Ethics	University of Michigan-Coursera Platform	661	653
14	Introduction to Cloud Computing	IBM-Coursera Platform	420	390

Total Number of Value-Added Courses	No of Students Enrolled	No of Students Completed
14	6883	6578



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Ref: MRECW/S_M/2019-20/VAC/01

Date: 12-08-2019

CIRCULAR

We are Happy to inform that we are arranging Value added Course on “**Cisco CCNA RS Introduction to Networks**” through Cisco Networking Academy Platform from 20-08-2019 to 26-08-2019. All the Students are advised to enrol for the value-added course at their respective Head of the Department office on or before **17-08-2019**. The detailed schedule and the syllabus will be displayed on the department notice board.

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Syllabus on

“Introduction to Networks”

ABOUT: This CISCO CCNA begin preparing for a networking career with this introduction to how networks operate. This first course in the 3-course CCNA series introduces architectures, models, protocols, and networking elements – functions needed to support the operations and priorities of Fortune 500 companies to small innovative retailers. You'll even get the chance to build simple local area networks (LANs). Developing a working knowledge of IP addressing schemes, foundational network security, you'll be able to perform basic configurations for routers and switches. No prerequisites required

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

- Build simple LANs, perform basic configurations for routers and switches, and implement IPv4 and IPv6 addressing schemes.
- Configure routers, switches, and end devices to provide access to local and remote network resources and to enable end-to-end connectivity between remote devices.
- Develop critical thinking and problem-solving skills using real equipment and Cisco Packet Tracer.
- Configure and troubleshoot connectivity a small network using security best practices.

MODULE INFO:

CCNA R&S deals with taking fundamental training on routing & switching and networking technologies used today. You learn about networking devices, networking technologies and how to implement networks(LAN) by using multiple technologies



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“Cisco CCNA RS introduction to networks”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“Cisco CCNA RS introduction to networks ”	322	313


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Ref: MRECW/S_M/2019-20/VAC/02

Date: 10-09-2019

CIRCULAR

This is to inform that we are arranging value added course for all I year students to enhance their qualities on “**CISCO Programming Essentials in C**” through Cisco Networking Academy Platform from 18-09-2019 to 23-09-2019. All the Students are advised to enrol for the value-added course at their respective Head of the Department office on or before **15-09-2019**. The detailed schedule and the syllabus will be displayed on the department notice board.

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Syllabus on

“CISCO Programming Essentials in C”

ABOUT: This CISCO provides Programming Essentials in C curriculum is designed for students who want to learn the fundamentals of programming through the C language. This course covers the universal concepts of computer programming, as well as the syntax, semantics and data types of the C language.

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

- Understand common computer programming concepts and write your own programs.
- Learn the syntax, semantics and basic data types of C.
- Apply programming skills using hands-on lab activities.
- Prepare for the C Programming Language Certified Associate Certification (CLA).

MODULE INFO:

The ever-popular C programming language is considered one of the best “first” languages to learn. It's proven itself for more than 40 years as the absolute essential for entry-level and software development jobs. Known for building operating systems and tens of thousands of applications, it continues to earn new devotees due to its fast and portable nature. Become a devotee yourself, and enjoy the rewards it brings! Designed for beginners, no prior programming knowledge required. See more about the C Programming Language Certified Associate Certification (CLA).



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“CISCO Programming Essentials in C”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“CISCO Programming Essentials in C”	322	300


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Ref: MRECW/S_M/2019-20/VAC/03

Date: 14-12-2019

CIRCULAR

We are Happy to inform that we are arranging Value added Course on “**Cisco CCNA Exploration: Routing Protocols and Concepts**” through Cisco Networking Academy Platform from 26-12-2019 to 31-12-2019. All the Students are advised to enrol for the value-added course at their respective Head of the Department office on or before **23-12-2019**. The detailed schedule and the syllabus will be displayed on the department notice board.

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Syllabus on

“Cisco CCNA Exploration: Routing Protocols and Concepts”

ABOUT: This CISCO CCNA begin preparing for a networking career with this introduction to how routing and switching operate. This first course in the 3-course CCNA series introduces architectures, models, protocols, and networking elements – functions needed to support the operations and priorities of Fortune 500 companies to small innovative retailers. You'll even get the chance to build simple local area networks (LANs). Developing a working knowledge of IP addressing schemes, foundational network security, you'll be able to perform basic configurations for routers and switches. No prerequisites required

OUTCOME's:

When you enroll in this course, you'll also be enrolled in this Specialization.

- Build simple LANs, perform basic configurations for routers and switches, and implement IPv4 and IPv6 addressing schemes.
- Configure routers, switches, and end devices to provide access to local and remote network resources and to enable end-to-end connectivity between remote devices.
- Develop critical thinking and problem-solving skills using real equipment and Cisco Packet Tracer.
- Configure and troubleshoot connectivity a small network using security best practices.

MODULE INFO:

CCNA R&S deals with routing and switching technologies allows your staff, even those located in different locations, to have equal access to all your business applications, information and tools. Keeping everyone connected to the same tools can increase employee productivity. Routing and switching also can provide access to advanced applications and enable services, such as IP voice, videoconferencing and wireless networks.



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“Cisco CCNA Exploration: Routing Protocols and Concepts”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“Cisco CCNA Exploration: Routing Protocols and Concepts”	655	625


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Ref: MRECW/S_M/2019-20/VAC/04

Date: 08-01-2020

CIRCULAR

We are Happy to inform that we are arranging Value added Course on “**Cisco Linux Certification**” through Cisco Networking Academy Platform from 17-01-2020 to 22-01-2020. All the Students are advised to enrol for the value-added course at their respective Head of the Department office on or before **15-01-2020**. The detailed schedule and the syllabus will be displayed on the department notice board.

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Syllabus on

“Cisco Linux Certification”

ABOUT: This CISCO Certification provides Linux which is an operating system created in 1991. Linux is open source, fast, reliable, and small. It requires very little hardware resources to run, and is highly customizable. Unlike other operating systems such as Windows and macOS X, Linux was created, and is currently maintained, by a community of programmers. Linux is part of several platforms and can be found on devices anywhere from “wristwatches to supercomputers.”.

OUTCOME's:

When you enroll in this course, you'll also be enrolled in this Specialization.

- Basic installation and configuration of Linux software.
- Understand the basics of the Linux Command Line Interface (CLI).
- Interact with the Linux virtual machine.
- Determine if Linux is for you or not.

MODULE INFO:

A Linux distribution is the term used to describe packages created by different organizations. Linux distributions (or distros) include the Linux kernel with customized tools and software packages. While some of these organizations may charge for their Linux distribution support (geared toward Linux-based businesses), the majority of them also offer their distribution for free without support. Debian, Red Hat, Ubuntu, CentOS, and SUSE are just a few examples of Linux distributions.



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Ref: MRECW/S_M/2019-20/VAC/05

Date: 18-03-2020

CIRCULAR

We are Happy to inform that Coursera Platform has activated value added course on “**C FOR EVERYONE: Structured Programming**”. All the students are advised to enrol your-self and complete the course in the stipulated time. The detail syllabus is available in your respective department notice boards.

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Syllabus on

“C FOR EVERYONE: Structured Programming”

ABOUT: This Coursera Certification provides The C language is particularly well suited as an introduction to coding: It's a tried-and-true language, and it allows you to understand computing processes at a deep level. You will also get an introduction to more advanced programming in C++ in the final module. The module allocated 35 hours of time to complete the certification.

OUTCOME's: This course is part of the Coding for Everyone: C and C++ Specialization

When you enroll in this course, you'll also be enrolled in this Specialization.

- Learn new concepts from industry experts
- Gain a foundational understanding of a subject or tool
- Develop job-relevant skills with hands-on projects
- Earn a shareable career certificate

MODULE INFO:

In the new world we live in, coding is a universally valuable skill, whether you're a scientist, artist, or a humanist. Algorithms are everywhere, and we all have to understand how they work. The C language is particularly well suited as an introduction to coding: It's a tried-and-true language, and it allows you to understand computing processes at a deep level. You will also get an introduction to more advanced programming in C++ in the final module.



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“C FOR EVERYONE: Structured Programming”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“C FOR EVERYONE: Structured Programming”	580	520


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Ref: MRECW/S_M/2019-20/VAC/06

Date: 10-04-2020

CIRCULAR

This is to inform that we are arranging TCS-ION Certification value added courses for all students to enhance their qualities on “**COMMUNICATION SKILLS**” programme. All the Students are advised to enrol for the value-added course.

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Syllabus on

“COMMUNICATION SKILLS”

ABOUT: Communication is as old as the existence of human beings. Words are not the only way of getting your message across. Many times you can sense the mood your colleague or friend is in. How do you think you can figure it out? It is because communication involves not just words, but also actions, body language and facial expressions to mention a few. In this course we will help you understand what communication is and why we communicate. You will also understand non-verbal communication in detail. On completion of the course, you will learn how to communicate effectively using a combination of verbal and non-verbal communication skills.

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

- What is communication
- Verbal and non-verbal communication
- Barriers in communication
- How to communicate effectively

MODULE INFO: Soft Skills like good communication, being aware of your body language, being able to work in a team and your interpersonal skills play a vital role in enhancing your personality. This, when paired with technical skills, makes a good base for a successful career.



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“COMMUNICATION SKILLS”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“COMMUNICATION SKILLS”	430	402


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Ref: MRECWS_M/2019-20/VAC/07

Date: 10-04-2020

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This is to inform that we are arranging TCS-ION Certification value added courses for all students to enhance their qualities on "EMAIL ETIQUETTE" programme. All the Students are advised to enrol for the value-added course.

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Syllabus on

“EMAIL ETIQUETTE”

ABOUT: Email etiquette is a crucial set of principles for socially and professionally acceptable email communication. It encompasses language, structure, grammar, and tone, varying based on the recipient and context, such as professional or personal emails

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

- What is communication
- Verbal and non-verbal communication
- Barriers in communication
- How to communicate effectively

MODULE INFO: Email etiquette dictates what's appropriate when you're sending a message to a prospective customer, business partner, coworker, manager, or acquaintance. These guidelines help you avoid miscommunications and mistakes which can reflect poorly on you and the organization you represent.



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“EMAIL ETIQUETTE”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“EMAIL ETIQUETTE”	720	702


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Ref: MRECW/S_M/2019-20/VAC/08

Date: 10-04-2020

CIRCULAR

This is to inform that we are arranging TCS-ION Certification value added courses for all students to enhance their qualities on “**INTRODUCTION TO SOFT SKILLS**” programme. All the Students are advised to enrol for the value-added course.

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Syllabus on

“INTRODUCTION TO SOFT SKILLS”

ABOUT: Soft skills are character traits and interpersonal skills that characterize a person's ability to interact effectively with others. In the workplace, soft skills are considered to be a complement to hard skills, which refer to a person's knowledge and occupational skills. Psychologists may use the term "soft skills" to describe someone's emotional intelligence quotient (EQ) as opposed to intelligence quotient (IQ).

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

- What is communication
- Verbal and non-verbal communication
- Barriers in communication
- How to communicate effectively

MODULE INFO: Soft Skills like good communication, being aware of your body language, being able to work in a team and your interpersonal skills play a vital role in enhancing your personality. This, when paired with technical skills, makes a good base for a successful career.



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“INTRODUCTION TO SOFT SKILLS”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“Introduction To Soft Skills “	322	315


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Ref: MRECW/S_M/2019-20/VAC/09

Date: 13-05-2020

CIRCULAR

We are Happy to inform that Coursera Platform has activated value added course for III Year CSE and IT students to enhance their qualities on “**Creating Database Tables with SQL**”. All the students are advised to enrol your-self and complete the course in the stipulated time. The detail syllabus is available in your respective department notice boards

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Syllabus on

“Creating Database Tables with SQL”

ABOUT: Structured query language (SQL) is a programming language for storing and processing information in a relational database. A relational database stores information in tabular form, with rows and columns representing different data attributes and the various relationships between the data values. You can use SQL statements to store, update, remove, search, and retrieve information from the database. You can also use SQL to maintain and optimize database performance.

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

- Create a relational table with SQL code.
- Identify the attributes of a relational table.
- Alter the structure of an existing table with SQL code

MODULE INFO:

In this course you will experience the process of defining, creating, and managing relational database tables using the SQL language. Tables are used as the containers for the data in a database. As such, the structure, or makeup, of each table in a relational database is critical, since it must be designed and created specifically to meet the needs of the data it will contain. The table's structure indicates which pieces of data are stored in a table, as well as the type and size of each piece of data.

Throughout the course, you'll be exposed to guidelines and rules that database designers use to make sure that the tables will keep the data as safe and accurate as possible. You'll learn to use SQL code to incorporate the constraints that help the database management enforce those rules. As you work through and complete hands-on tasks, you'll become familiar with SQLiteStudio, the database management system used in the course. Tables that are well-designed and created correctly improve data integrity--and make data retrieval easier!



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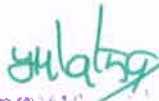
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“Creating Database Tables with SQL”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“Creating Database Tables with SQL”	619	604


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Ref: MRECW/S_M/2019-20/VAC/10

Date: 14-05-2020

CIRCULAR

We are Happy to inform that Coursera Platform has activated value added course for all IV-year students on “**Machine Learning for ALL**” All the students are advised to enrol your-self and complete the course in the stipulated time. The detail syllabus will be provided soon.

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Syllabus on

“Machine Learning for ALL”

ABOUT: Machine learning is a branch of artificial intelligence (AI) and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy.

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

- You will understand the basic of how modern machine learning technologies work
- You will be able to explain and predict how data affects the results of machine learning
- You will be able to use a non-programming based platform train a machine learning module using a dataset
- You will be able to form an informed opinion on the benefits and dangers of machine learning to society

MODULE INFO:

Machine Learning, often called Artificial Intelligence or AI, is one of the most exciting areas of technology at the moment. We see daily news stories that herald new breakthroughs in facial recognition technology, self driving cars or computers that can have a conversation just like a real person. Machine Learning technology is set to revolutionise almost any area of human life and work, and so will affect all our lives, and so you are likely to want to find out more about it. Machine Learning has a reputation for being one of the most complex areas of computer science, requiring advanced mathematics and engineering skills to understand it. While it is true that working as a Machine Learning engineer does involve a lot of mathematics and programming, we believe that anyone can understand the basic concepts of Machine Learning, and given the importance of this technology, everyone should. The big AI breakthroughs sound like science fiction, but they come down to a simple idea: the use of data to train statistical algorithms. In this course you will learn to understand the basic idea of machine learning, even if you don't have any background in math or programming.



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“Machine Learning for ALL”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“Machine Learning for ALL”	420	407

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Ref: MRECW/S_M/2019-20/VAC/11

Date: 16-05-2020

CIRCULAR


We are Happy to inform that Coursera has activated value added course on **“Introduction and Programming with IoT Boards”**. All II and III year ECE and EEE students are advised to enrol your-self and complete the course in the stipulated time. The detail syllabus will be provided soon.

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Syllabus on

“Introduction and Programming with IoT Boards”

ABOUT: This Coursera Certification provides Internet of Things (IoT) is an emerging area of information and communications technology (ICT) involving many disciplines of computer science and engineering including sensors/actuators, communications networking, server platforms, data analytics and smart applications.

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

This Specialization covers embedded systems, the Raspberry Pi Platform, and the Arduino environment for building devices that can control the physical world. In the final Capstone Project, you'll apply the skills you learned by designing, building, and testing a microcontroller-based embedded system, producing a unique final project suitable for showcasing to future employers.

MODULE INFO:

Internet of Things (IoT) is an emerging area of information and communications technology (ICT) involving many disciplines of computer science and engineering including sensors/actuators, communications networking, server platforms, data analytics and smart applications. IoT is considered to be an essential part of the 4th Industrial Revolution along with AI and Big Data. This course will be very useful to senior undergraduate and graduate students as well as engineers who are working in the industry. This course aims at introducing the general concepts and architecture of IoT applications, networking technologies involved, IoT development kits including Arduino, Raspberry Pi, Samsung ARTIK, and how to program them. This course will be offered in English.



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“Introduction and Programming with IoT Boards”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“Introduction and Programming with IoT Boards”	322	313

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Ref: MRECW/S_M/2019-20/VAC/12

Date: 18-05-2020

CIRCULAR

We are Happy to inform that Coursera Platform has activated value added course for III Year CSE and IT students to enhance their qualities on “**Introduction to Cyber Attacks**”. All the students are advised to enrol your-self and complete the course in the stipulated time. The detail syllabus will be provided soon.

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Syllabus on

“Introduction to Cyber Attacks”

ABOUT: A cyberattack is any intentional effort to steal, expose, alter, disable, or destroy data, applications or other assets through unauthorized access to a network, computer system or digital device. Threat actors launch cyberattacks for all sorts of reasons, from petty theft to acts of war.

OUTCOME's:

When you enrol in this course, you'll also be enrolled in this Specialization.

- Learn new concepts from industry experts
- Gain a foundational understanding of a subject or tool
- Develop job-relevant skills with hands-on projects
- Earn a shareable career certificate

MODULE INFO:

This course provides learners with a baseline understanding of common cyber security threats, vulnerabilities, and risks. An overview of how basic cyber attacks are constructed and applied to real systems is also included. Examples include simple Unix kernel hacks, Internet worms, and Trojan horses in software utilities. Network attacks such as distributed denial of service (DDOS) and botnet- attacks are also described and illustrated using real examples from the past couple of decades.

Familiar analytic models are outlined such as the confidentiality/integrity/availability (CIA) security threat framework, and examples are used to illustrate how these different types of threats can degrade real assets. The course also includes an introduction to basic cyber security risk analysis, with an overview of how threat-asset matrices can be used to prioritize risk decisions. Threats, vulnerabilities, and attacks are examined and mapped in the context of system security engineering methodologies.



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“Introduction to Cyber Attacks”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“Introduction to Cyber Attacks”	420	400

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Ref: MRECW/S_M/2019-20/VAC/13

Date: 20-05-2020

CIRCULAR

We are Happy to inform that Coursera Platform has activated value added course on “**Data Science Ethics**”. All III year CSE and IT students are advised to enrol your-self and complete the course in the stipulated time. The detail syllabus will be provided soon.

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Syllabus on

“Data Science Ethics”

ABOUT: Performance analysis of an algorithm is the process of calculating space and time required by that algorithm. Performance analysis of an algorithm is performed by using the following measures... Space required to complete the task of that algorithm (Space Complexity). It includes program space and data space.

OUTCOME's:

This course is available as part of DS

When you enrol in this course, you'll also be asked to select a specific program.

- Learn new concepts from industry experts
- Gain a foundational understanding of a subject or tool
- Develop job-relevant skills with hands-on projects
- Earn a shareable career certificate

MODULE INFO:

We recommend this course to learners who have previous experience in software development or a background in computer science, and in particular, we recommend that you have taken the first course in this specialization (which also requires some previous experience with Java).

In this course, you will use and analyze data that are used in industry-level applications, such as linked lists, trees, and hashtables. You will explain how these data structures make programs more efficient and flexible. You will apply asymptotic Big-O analysis to describe the performance of algorithms and evaluate which strategy to use for efficient data retrieval, addition of new data, deletion of elements, and/or memory usage.



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“Data Science Ethics”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“Data Science Ethics”	661	653

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Ref: MRECW/S_M/2019-20/VAC/14

Date: 21-05-2020

CIRCULAR

We are Happy to inform that Coursera Platform has activated value added course on “**Introduction to Cloud Computing**”. All the students are advised to enrol your-self and complete the course in the stipulated time. The detail syllabus will be provided soon.

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Syllabus on

“Introduction to Cloud Computing”

ABOUT: This Coursera Certification provides Cloud Computing is the delivery of computing services such as servers, storage, databases, networking, software, analytics, intelligence, and more, over the Cloud (Internet). Cloud Computing provides an alternative to the on-premises datacentre. With an on-premises datacentre, we have to manage everything, such as purchasing and installing hardware, virtualization, installing the operating system, and any other required applications, setting up the network, configuring the firewall, and setting up storage for data. After doing all the set-up, we become responsible for maintaining it through its entire lifecycle.

OUTCOME's:

When you enroll in this course, you'll also be enrolled in this Specialization.

- Define cloud computing and explain essential characteristics, history, the business case for cloud, and the emerging technologies enabled by cloud
- Explain emerging Cloud related trends including Hybrid Multicloud, Microservices, Serverless, Cloud Native, DevOps, and Application Modernization
- Describe the cloud service models- IaaS, PaaS, SaaS, and cloud deployment models- Public, Private, Hybrid; explain cloud infrastructure components
- List and describe services of popular cloud platforms including AWS, Microsoft Azure, Google Cloud, IBM Cloud, Alibaba Cloud, and others

MODULE INFO:

Start your cloud computing journey with this self-paced introductory course! Whether you need general cloud computing knowledge for school or business, or you are considering a career change, this beginner-friendly course is right for you. In this course you'll learn about essential characteristics of cloud computing and emerging technologies supported by cloud. You'll explore cloud service models, including Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS), and Public, Private, and Hybrid deployment models.



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“Introduction to Cloud Computing”

Enrolled/Attended Details

Name of the Value-Added Course	No of Students Enrolled	No of Student Completed
“ Introduction to Cloud Computing ”	420	407

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