Cognizant®

Digital Nurture

Table of Contents

Introduction

Welcome to the program Digital Nurture brought to you by Cognizant! This program is designed to equip you with a set of knowledge & skills that form the base for a career in Information Technology. The Program has been created by Subject Matter Experts (SMEs) who combine Technology expertise with practical experience. This approach blends theory and practice, by design, to launch you on your journey to the highest levels of proficiency in hi-tech work environments.

We encourage you to go through this guidebook completely, including the FAQs at the end.

Enjoy your Learning!

Learning Guide - Technical Skills

The purpose of this handbook is to provide important facet of the Digital Nurture program. It includes a list of links and steps illustrating how to access learning sources.

You will be receiving a welcome mailer from the platform with your Login credentials and link for accessing the learning courses.

Sample Mailer

Dear Logesh T,

Welcome to the Digital Base 1 program brought to you by Cognizant, to empower you and provide you with the required strong fundamental IT skills that are required in the IT Industry.

A new account has been created for you for the 'Cognizant Digital Base 1- Online Learning program', and you have been issued with a new temporary password. Your current login information is:

Username: logeshwaran

Password: echidna2sn

(you will have to change your password when you login for the first time)

To start learning login at https://cognizantee.tekstac.com/login/?lang=en. In most mail programs, this should appear as a blue link which you can just click on. If that doesn't work, then copy and paste the address into the address line at the top of your web browser window.

Once you log in you will find all the required details about the program.

Remember to:

- Please go through the below Digital Nurture program handbook in detail as it is a very important document for your learning Journey:

  https://cognizantee.tekstac.com/blocks/learningpath/handbook.php

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- To Learn More About the learning platform, watch this video to see how it works:
  https://cognizantee.tekstac.com/blocks/faq/view.php?id=17
- Students are given bonus of 100 points for qualifying in a Micro-certification. Additional bonus points of 100 on qualifying in the first attempt and another 100 points on qualifying in the first schedule of a Micro-certification.Watch this video on how to take up Micro Certification:
  https://cognizantee.tekstac.com/blocks/faq/view.php?id=18
- For any issues / queries related to the platform or the learning activities, you may raise a ticket using the Help Desk option available on the platform. Replies/response to the tickets will be sent by emails/notifications (on the platform), within 24 hours on working days. Access help desk at the link,
  https://cognizantee.tekstac.com/blocks/helpdesk/search.php Watch this video on how to raise a ticket :
  https://cognizantee.tekstac.com/blocks/faq/view.php?id=21
- Frequently Asked Questions (FAQs) are also available on the learning platform at the link,
  https://cognizantee.tekstac.com/blocks/faq/index.php

Happy Learning!
Thanks & Regards,
Digital Nurture Team
GenC – HR Team

Why do we need this enablement Program?

As Digital Technologies proliferate, there is a dual need in workplaces: (i) solid foundations in computing, and (ii) capabilities in advanced areas.

It is important to keep mind that Advanced Technologies, by their nature, are the forefront of innovation. This means they keep changing, and professionals in the IT industry need to (apart from the work they do) journey on a path of continuous learning. Mastery of Advanced Technologies, and continuously expanding one's skillsets is possible only if professionals have a mastery of the fundamental concepts of a range of subjects in IT.

This Program aims to do just this. It enables you to acquire a comprehensive grasp of the fundamental concepts in a range of subjects that form the base of modern Information Technology. With this foundational skill-kit, you will be able to navigate, and succeed in your learning journey – a journey that will see you continuously learn and thrive.

The Program at a glance

This learning journey of 12 weeks consists of modules covering:

- Foundation
- Web Technologies
- RDBMS & SQL using Oracle
- Programming using Java
- Programming using C#
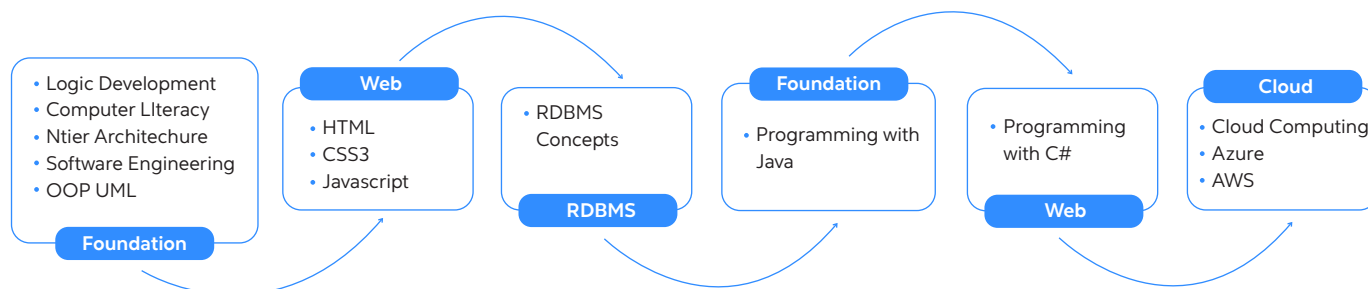- Cloud Fundamentals

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Program Highlights

- Completely online: delivered 24x7 through a best-in-class digital skilling platform.
- A pedagogy that places the Learner at the center: each component of the program is crafted keeping in mind the fact that you are an adult, that you are keen on acquiring skills, and value autonomy in directing your learning.
- A learning approach based on the idea that skills are acquired through practice, and feedback: you will find that each course has an ample number of exercises, quizzes, and hands-on labs that are designed to help you become confident in practical application of concepts.
- Support from SMEs as you progress.

Key Components of the Program

- The Program is structured as a set of 6 Modules with each Module culminating in a Micro-Certification.
- Each Module is a learning unit that consists of explanatory videos, presentations, demos of practical applications, hands-on Lab exercises (where applicable), and knowledge-check quizzes.
- The Micro-Certification for a Module is awarded on successful completion of an Assessment.

Learning Journey

Foundation
- Logic Development
- Computer LIteracy
- Ntier Architechure
- Software Engineering
- OOP UML

Web
- HTML
- CSS3
- Javascript

RDBMS
- RDBMS Concepts

Foundation
- Programming with Java

Web
- Programming with C#

Cloud
- Cloud Computing
- Azure
- AWS

Getting Started

To get started you need to login to Digital Nurture Learning platform at **https://cognizantee.tekstac.com/login/?lang=en.** In most mail programs, this should appear as a blue link which you can just click on. If that does not work, then copy and paste the address into the address line at the top of your web browser window. Once you log in you will find all the required details about the program.

Watch the Dashboard Tutorial Video for guidance:

https://cognizantee.tekstac.com/blocks/faq/view.php?id=17

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Courses & Lessons

To access the courses, Login to the Digital Nurture Learning platform,

- On the home page, scroll down to "My Learning Path" section and click on "Digital Base 1" learning path and access all your course modules. Please find the below screenshot for your reference.
- Once you login and go through the course modules, please make note that there are mandatory course activities like Quiz and Hands-on, that will be present under each course unit. These quizzes are meant to gauge your understanding of the concepts in each course unit, and the hands-on activities is to help you implement the concepts learnt.
- On completing the mandatory activities in each course unit, you will be awarded certain XP points. As you complete more activities, the XP points will keep increasing.

Learning Progress Report

To know your learning progress, Login to the Digital Nurture Learning platform, and on the home page you will see:

- "My Accomplishments" which details the XP points level reached by you. It also includes your overall rank. Please find the below screenshot for your reference:

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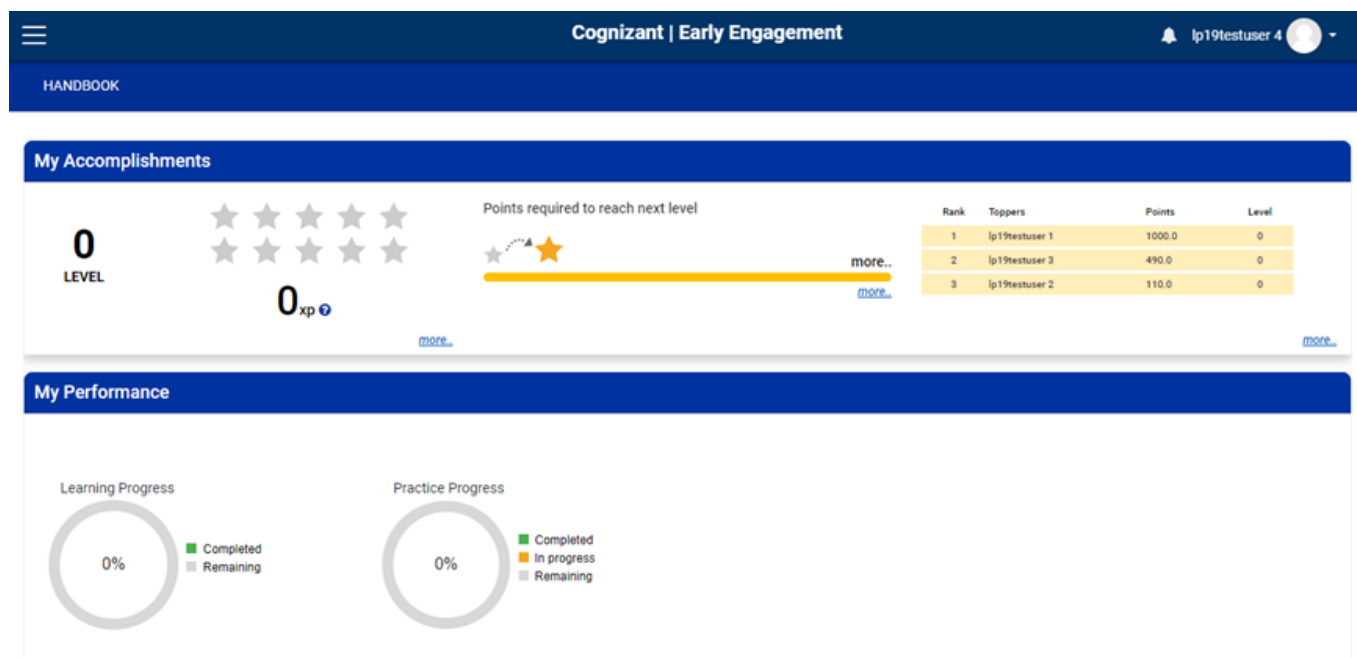
The doughnut charts shown above under "My Performance" captures you learning progress and practice progress respectively.

Each stars indicate the levels of learning completed and a student can score a maximum of 10 stars and 7000 Xp points in the Digital Nurture program. Micro certifications are essential to be completed within the time.

Click on More to understand on the XP Gained and how many point have been scored in each module, Test, Quiz and Coding Activity.
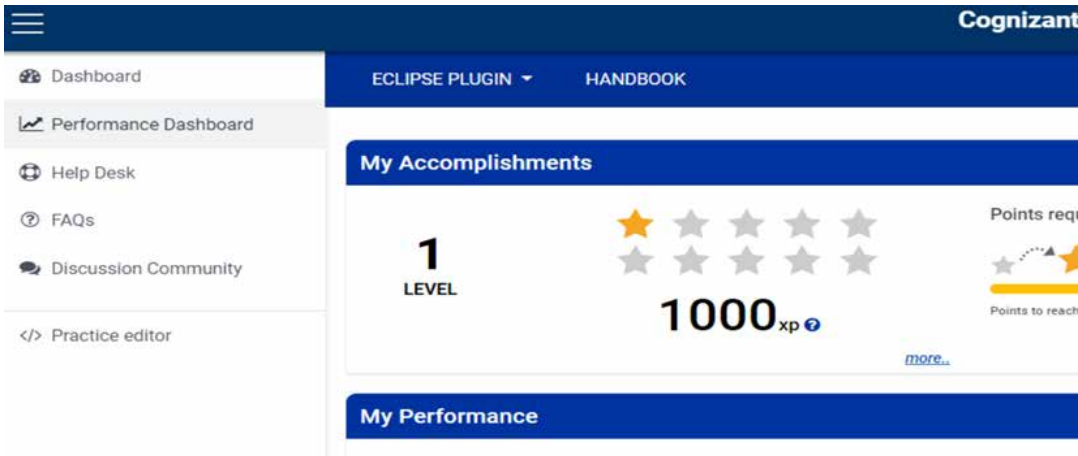
Milestone Based Progress

The "Milestone Based Progress "graph shown below indicates your course completion Vs the recommended course completion to be achieved within 12 weeks.
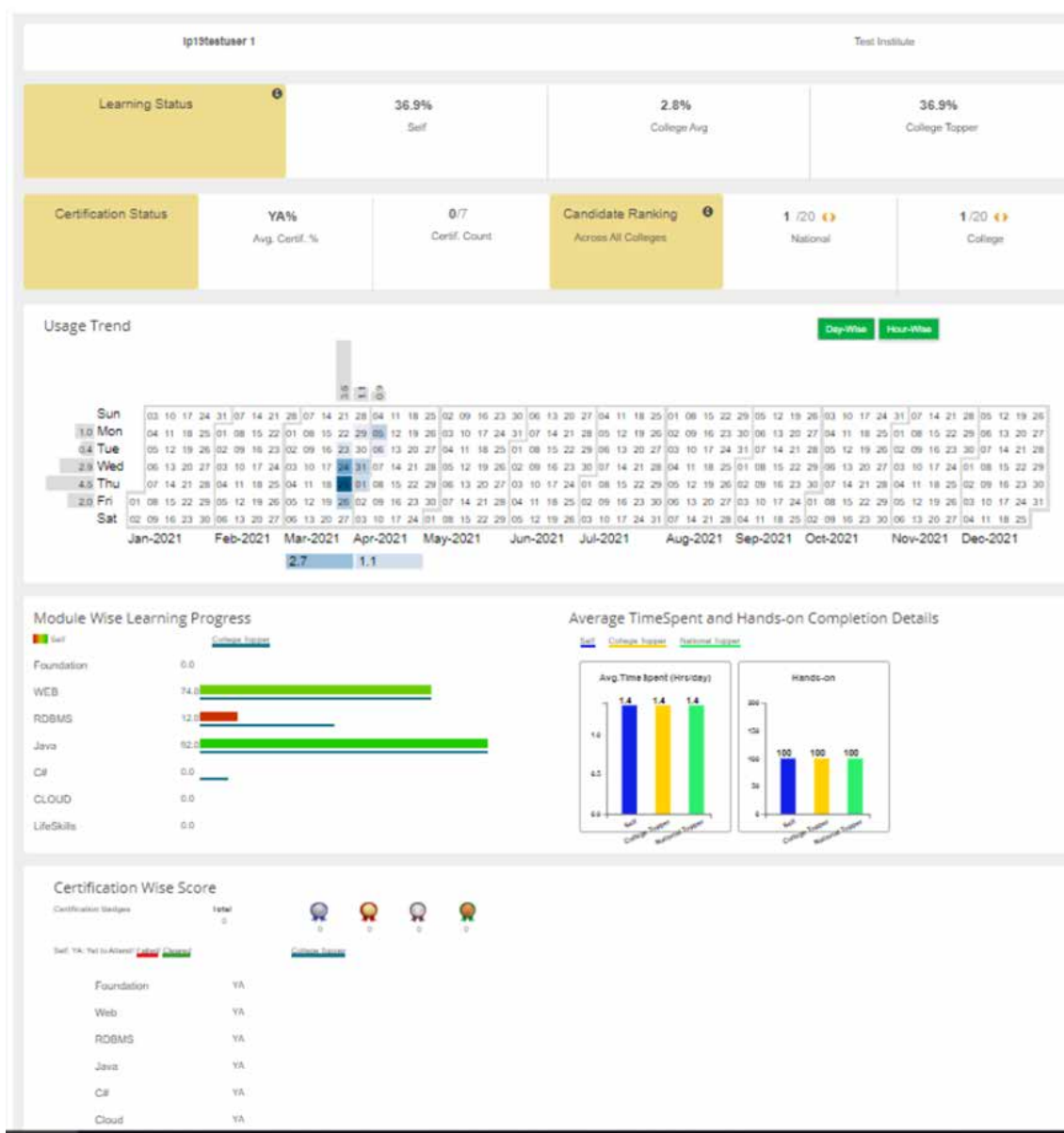

Performance Dashboard

Holistic view of your performance (course & module wise) can be accessed through the 'Performance Dashboard' available in the homepage.

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Performance Dashboard

Recommended completion

Please find below the Recommended Schedule for your reference. This chart will give you an idea on how you need to progress with your learning on a weekly basis.

Cognizant Digital Base Part 1 - Recommended Schedule

MC 1 - FOUNDATION	Hours	Week 1	Week 2	Week 3
1 Logic Development	12			
2 Basic Computer Literacy	2			
3 N tier architecture	4			
4 Software Engg	12			
5 OOP	8			

MC 2 - WEB TECHNOLOGIES		Hours	Week 3	Week4	Week 5
6	HTML5	8			
7	CSS3 with Bootstrap	12			
8	JavaScript	12			

MC 3 - RDBMS & SQL USING ORACLE		Hours	Week 5	Week 6	Week 7
9	RDBMS Concepts & SQL Using Oracle	32			

MC 4 - JAVA PROGRAMMING		Hours	Week 7	Week 8	Week 9
10	Programming Core using Java	40			

MC 5 - C# PROGRAMMING		Hours	Week 10	Week 11
11	Programming Core using C#	25		

MC 6 - CLOUD FUNDAMENTALS		Hours	Week 11	Week 12
12	Introduction to Cloud Computing Gene	7		
13	Introduction to Azure	6		
14	Introduction to AWS	7		

Practice Editor

Each candidate would be having an option to practice coding in the practice editor tab. Follow the instructions as given in the above image. The Practice editor helps in honing your coding skills and gain a deeper understanding and hands on experience

A candidate can choose the code editor option for writing the code. You may wish to compile and run the code to get the desired output.

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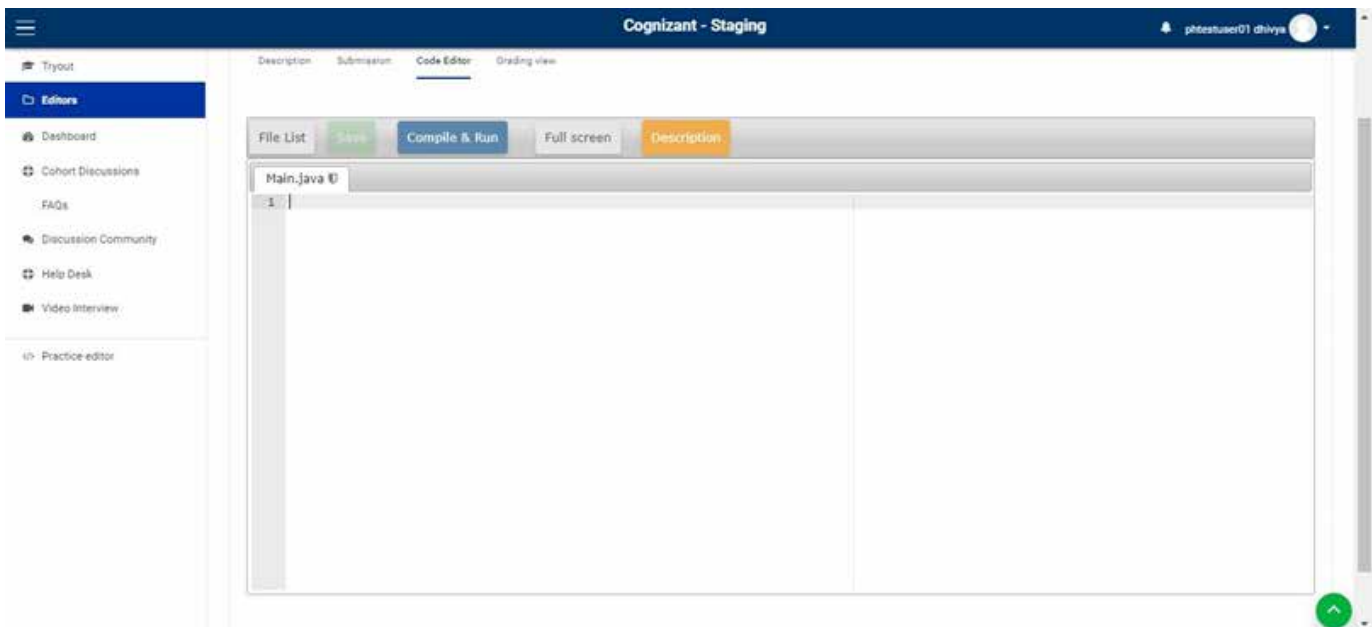
Submission:

Step 1: Click on the submission button to submit the work.

Step 2: Describe the result in the result description space given.

Step 3: The solution should be a zip file, containing all the necessary files. Ensure that the filenames should be as that of the description and the files mentioned in the Code Editor.

Step 4: You can Drag and Drop or choose the file to submit your work.

Step 5: Click on submit your work.
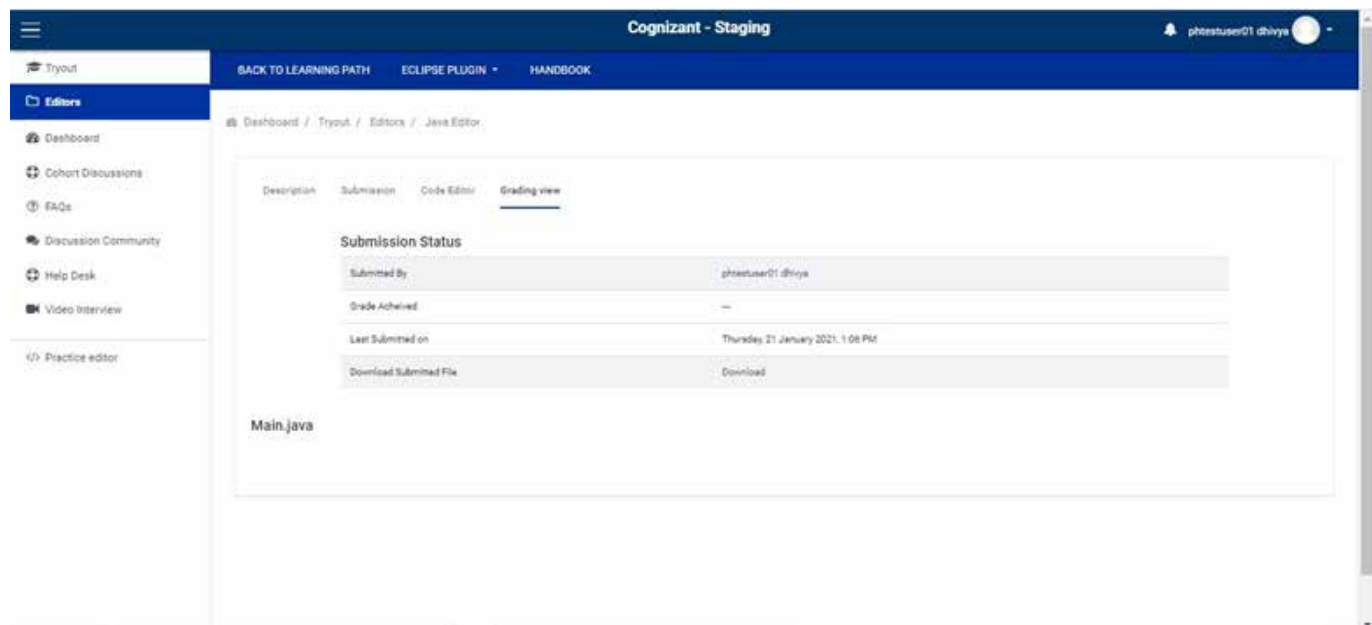
Help Desk

For any issues / queries related to the platform or the learning activities, students may raise a ticket using the Help Desk option available on the platform. Replies/response to the tickets will be sent by emails/notifications (on the platform), within 24 hours on working days. Please find the below screenshot for your reference. Once you click on "Raise new ticket", you will be guided to mention the category and type of your query. All tickets raised by you will be displayed here including the status of your ticket.
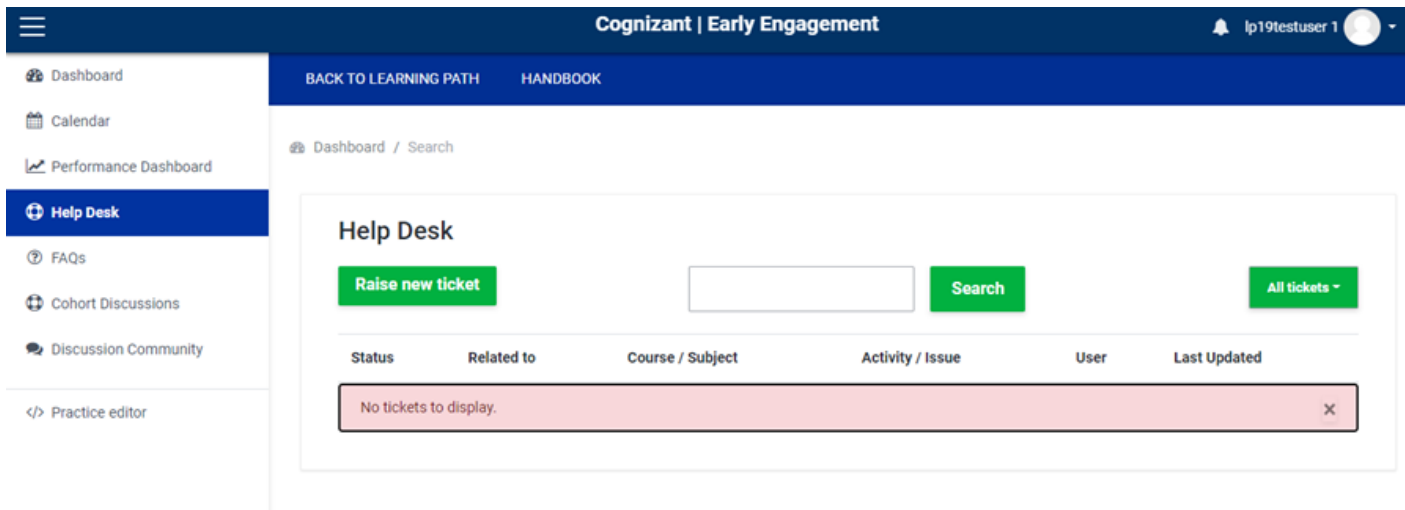
Discussion Forum

Cohort Discussions help a learner to participate in the discussions that happen within the college. This helps in progress and improve the discussions that are happening within the groups that you would be a part of enhancing the learning experience throughout the Digital Nurture program.

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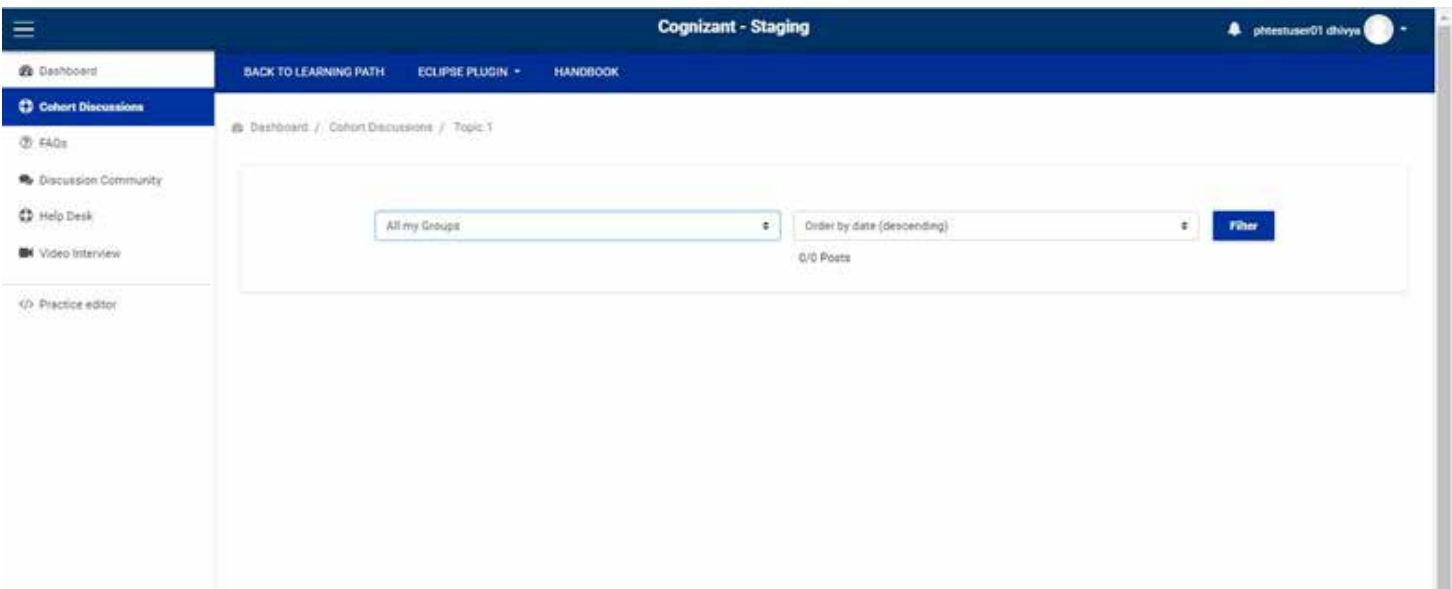
Multiple Discussion community has been enabled for a student to not just discuss within the colleges but with students across India as well. You may choose to join multiple community to understand the topics that are trending and solutions that may help you in understanding concepts better.

Course Modules

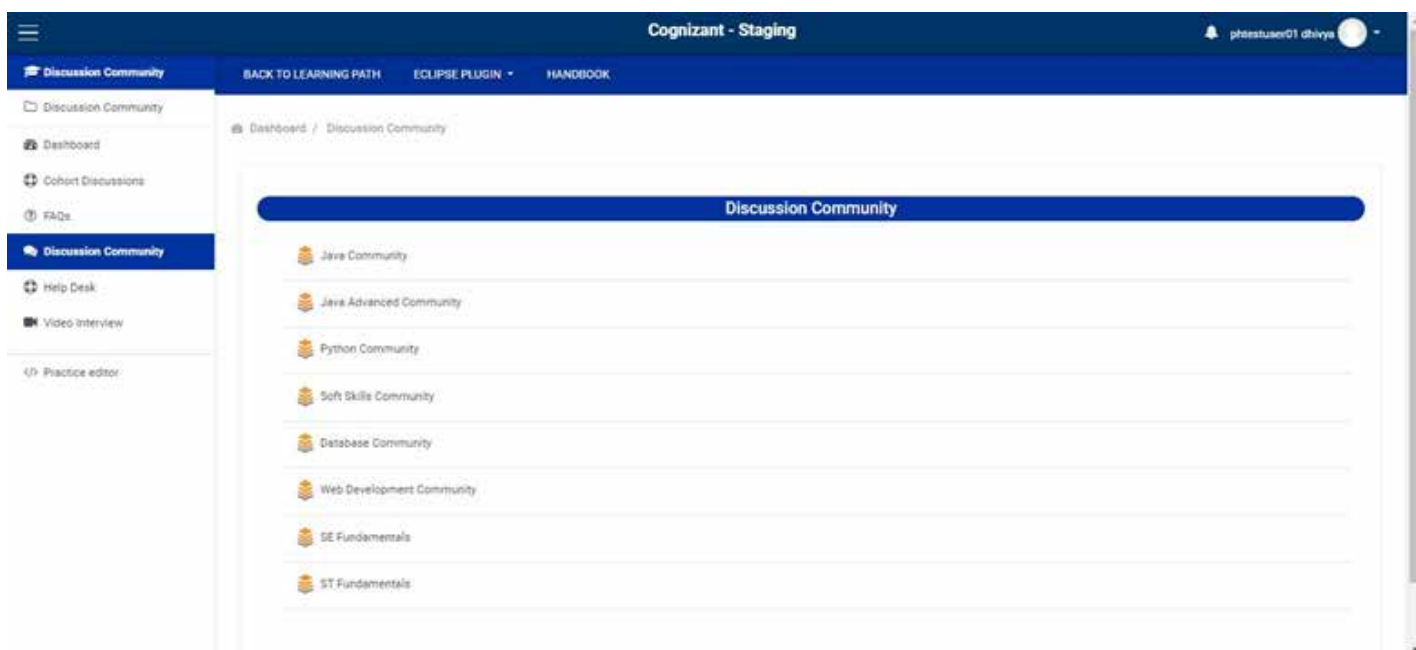There will be a micro-certification at the end of each course module. The micro-certification will cover the topics mentioned under each course module. The learning content of each course module will have numerous learning activities, that will cover the mentioned topics.

Module 1

Foundation

Objective(s): Learn fundamentals of logic, the algorithmic way to approach problems, how modern computing works, how software applications are built, and the principles of Object-Oriented Programming.

Topics include: Logic development, n-tier Architecture, Software Engineering, and Object-Oriented Programming

Module 2

Web Technologies

Objective(s): Learn the essentials of developing the front-end, the interfaces for users of web applications.

Topics include: HTML 5, CSS3 with Bootstrap, and JavaScript

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Module 3

RDBMS & SQL using ORACLE

Objective(s): Learn how data is created, organized, stored, and retrieved in software applications. Also, learn how to work with the Oracle database, and perform various computations, and functions with data.

Topics include: RDBMS concepts, Tables, Data manipulation, SQL statements, Scalar & Aggregate functions, Joins, Subqueries, Views, Index, and Data Control Language.

Module 4

Programming using Java

Objective(s): Learn how to write programs using the basic elements of Java.

Topics include: The Java environment, the building blocks of Java, classes, strings, and arrays.

Module 5

Programming using C#

Objective(s): Learn how to write programs using the basic elements of C#.

Topics include: The .NET framework, the building blocks of C#, nullables, classes, strings, and arrays.

Module 6

Cloud Fundamentals

Objective(s): Learn the core concepts of Cloud Computing.

Topics include: Introduction to Cloud Computing, Cloud Service Models (IAAS, PAAS, SAAS), non-functional requirements for Cloud Applications, Deployment, and an overview of the major Cloud providers.

Program Guidelines

- Learning must be done in a sequence as mentioned above in the "Recommended Schedule" and has to be completed within 12 weeks.
- The platform has a Help Desk where students can raise tickets regarding platform issues and any issues about the learning activities. Queries will be responded within 24 hours on any working day.
- To be eligible to attempt a Micro-Certification, completion of all quizzes, and hands-on exercises (wherever applicable) in the associated Module is mandatory.

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- The completion of all quizzes and hands-on Lab (mandatory activities) in a particular course module, will provide access to you for the next module in the learning journey.
- XP points will be awarded for all mandatory activities. Additional XP points will be: -
    - 100 points for qualifying in a Micro-certification.
    - 100 points for qualifying in the first attempt of taking up a Micro-certification.
    - 100 points for qualifying in the first occurrence of a Micro-certification.
- The schedules for the micro-certifications will be sent by email and scroll-notification will be displayed on the platform. Please find the below screenshot for your reference.
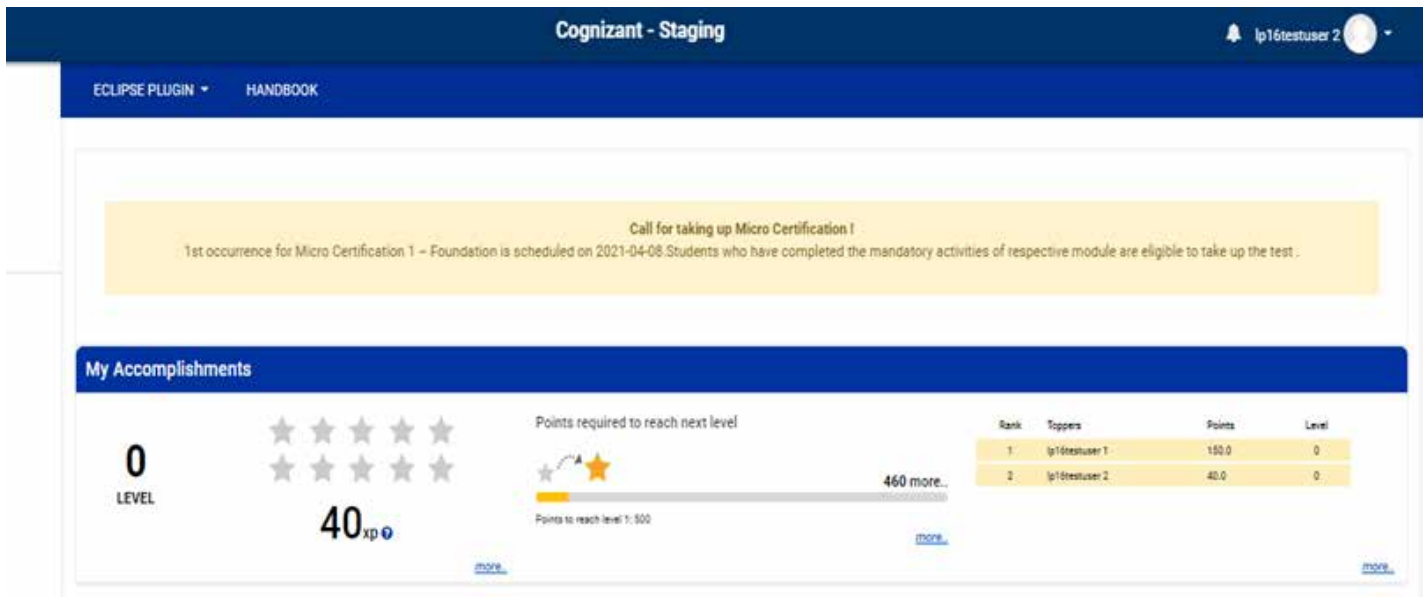
- Only three attempts will be provided to clear each micro-certification. One attempt plus 2 re-attempts. Once a micro-certification is cleared, no re-attempts will be allowed. If a micro-certification is not cleared within the allowed three attempts, it cannot be taken up at all.
- Contests will be conducted. Significant performance weightages will be given for contests. Any number of contests can be taken up. Contest schedules will be notified.
- Micro-certifications can be attempted only in the sequence mentioned in the schedule above.
- The Soft skills component is an important one, and students are expected to go through the complete course.

Frequently Asked Questions

1) **Is there any pre-learning I should do?**

   This program is Foundational. In other words, it starts from the basics and covers a wide range of concepts and applications comprehensively. No specific pre-learning is required.

2) **What is a Micro-Certification?**

   A Micro-Certification is a credential, which attests that you have achieved a desired level of proficiency in the knowledge-areas covered in a Module. (Completion of Quiz with 60% & 100 % for Hands-on in a mandate to take up the micro-certification)

3) **Can I take up the Micro-Certifications without completing the Hands-on for that module?**

   No. To be eligible for a Micro-Certification Assessment, completion of all quizzes, and hands-on in the associated Module is mandatory.

4) **Who can I contact in case I have doubts / queries?**

   For any issues / queries related to the platform or the learning activities, students may raise a ticket using the Help Desk option available on the platform. Replies/response to the tickets will be sent by emails/notifications (on the platform), within 24 hours on working days.

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Learning Guide – Life Skills

FutureSkills Prime Closed Groups

Closed Group User Onboarding Walkthrough for **Cognizant Digital Nurture**

Welcome email received post group creation

Recipient expected to click the 'Get Started' button and it redirects to the login page: https://futureskillsprime.edcast.com/ then follow the 3 steps given.

Exclusive Invitation

Dear rohan,

Welcome to FutureSkills Prime, a first of its kind Government and Industry partnership to drive a national skilling ecosystem for digital technologies.

The key intent for this initiative is to support the creation of India's Digital Talent Stack by providing premium content to learners, leading to prestigious Badges and Certificates from FutureSkills Prime.

3 Easy Steps to Get Started:

1. Click on the button below to sign in using the following credentials:
   Username: Email
   Password: Welcome@123
2. Complete the short onboarding form
3. Once you're on the platform, reset your password

Get Started

Enter the email ID registered with us

Login

Email

Password

LOG IN

By logging in you confirm your indian citizenship

SIGN UP

or login with

JOIN NOW WITH GOOGLE G+

JOIN NOW WITH FACEBOOK f

JOIN NOW WITH LINKEDIN in

Hello rohan, Welcome!
Please add your profile picture and enter your details to continue

(120×120)

First Name*

rohan

Last Name*

chowdry

Email*

rohan.chowdry+7@edcast.com

By agreeing to sign up, you declare that you are an Indian citizen. If this is not true please do not sign up. By signing up you also agree to our Subscriber Terms

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Hello rohan, Welcome!
Help us with some details about yourself

● ● ○ ○

Date of Birth*

| Year ▼ | Month ▼ | Day ▼ |

Gender*

○ Male   ○ Female   ○ Transgender

| Pincode* | City/District* |
| Enter Pincode | Select City/District |

| State* | Country* |
| Select State | India |

Mobile Number*

+91-   Verify

Mobile Number*

+91-0871588309   Update

A 4 digit OTP has been sent to your mobile number. Please enter the code below to verify your number. The OTP will be valid for 5 minutes: 4:57

[ ] [ ] [ ] [ ]   Resend OTP

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Hello rohan, Welcome!
Tell us about your current education/employment details
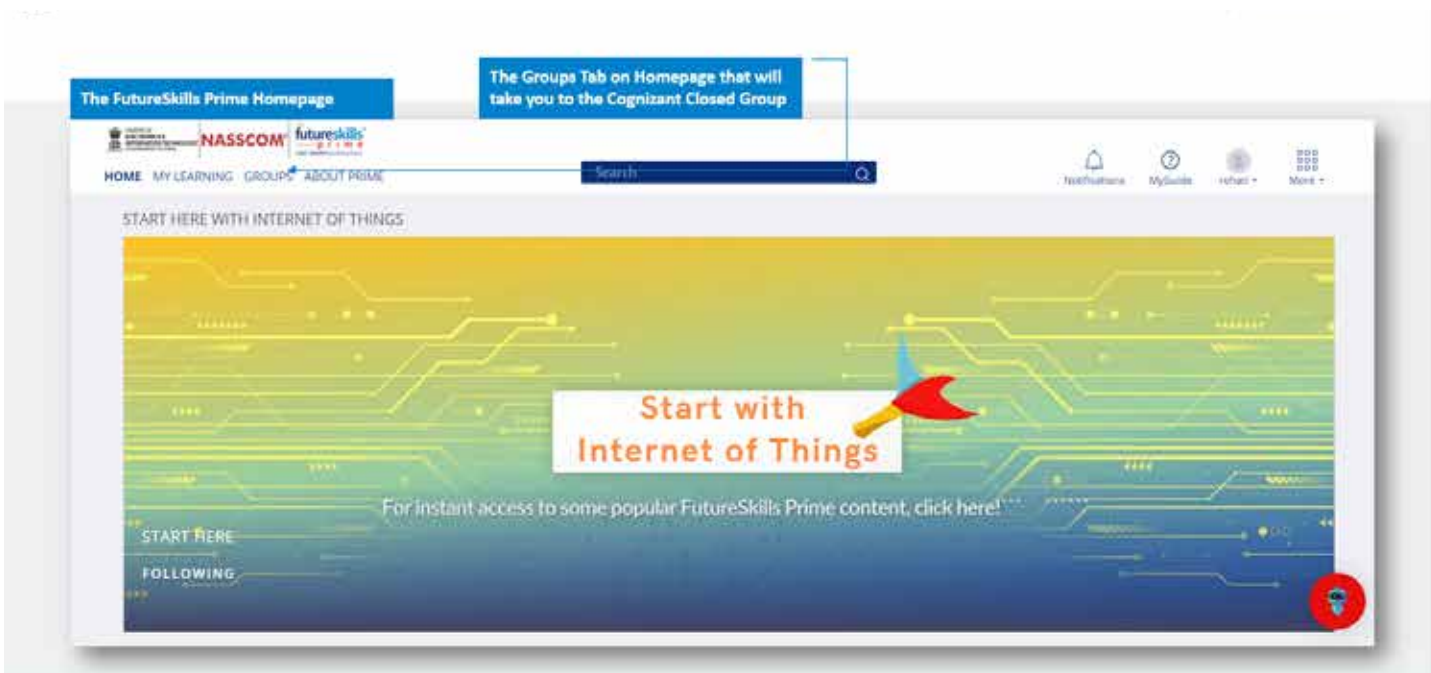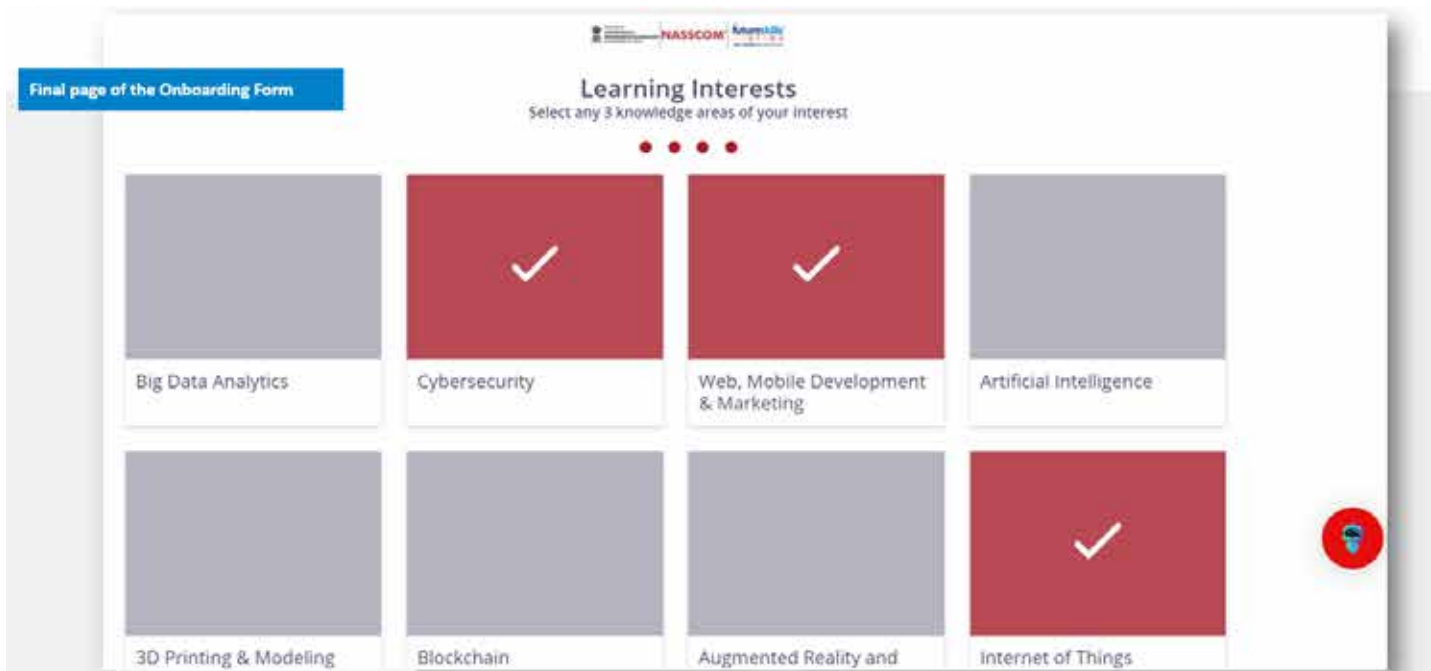
● ● ● ○

Current Occupation*

| Working Professional ▼ |

Current Employment Details*

| IT Industry with non IT role ▼ |

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Learning Interests

Select any 3 knowledge areas of your interest

• • • •

Big Data Analytics	Cybersecurity ✓	Web, Mobile Development & Marketing ✓	Artificial Intelligence
3D Printing & Modeling	Blockchain	Augmented Reality and	Internet of Things ✓

The FutureSkills Prime Homepage

The Groups Tab on Homepage that will take you to the Cognizant Closed Group

NASSCOM   futureskills prime

HOME   MY LEARNING   GROUPS   ABOUT PRIME   Search   Notifications   MyGuide   rshari ▾   More ▾

START HERE WITH INTERNET OF THINGS

Start with Internet of Things

For instant access to some popular FutureSkills Prime content, click here!

START HERE

FOLLOWING

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Module URLs

1. https://futureskillsprime.edcast.com/insights/program-overview
2. https://futureskillsprime.edcast.com/pathways/getting-started-with-effective-communication-skills
3. https://futureskillsprime.edcast.com/pathways/practicing-effective-communication
4. https://futureskillsprime.edcast.com/pathways/overcoming-barriers-to-communication
5. https://futureskillsprime.edcast.com/pathways/getting-started-with-creative-problem-solving-cps-amp-cr
6. https://futureskillsprime.edcast.com/pathways/practicing-creative-problem-solving-cps-amp-critical-thi
7. https://futureskillsprime.edcast.com/pathways/overcoming-barriers-to-creative-problem-solving-cps-amp
8. https://futureskillsprime.edcast.com/pathways/teamwork-teamwork
9. https://futureskillsprime.edcast.com/pathways/overcoming-barriers-to-collaboration-amp-teamwork
10. https://futureskillsprime.edcast.com/pathways/getting-started-with-innovation-amp-design-thinking
11. https://futureskillsprime.edcast.com/pathways/practicing-innovation-amp-design-thinking
12. https://futureskillsprime.edcast.com/pathways/final-test-attempt
13. https://futureskillsprime.edcast.com/pathways/workplace-skills-to-leap-ahead-final-test-attempt

Additional Information before you begin you learning journey with FutureSkills Prime

What are badges, and why should you earn the FutureSkills Prime Digital Fluency Badges?

- Earn a badge and share it with your professional network on LinkedIn. A badge is a proof of your knowledge gained and also shows how committed you are towards your own growth

What kind of topics are covered in the 'Cognizant Digital Nurture' Group and what is the Time duration required to complete most topics?

- You can begin your learning journey by developing work skills on Effective Communication, Communication and Teamwork, Creative Problem Solving & Critical Thinking and Innovation & Design Thinking.   Spend 30 minutes on each learning nugget or Pathway. In total you only need 5 hours to build awareness on these skills.

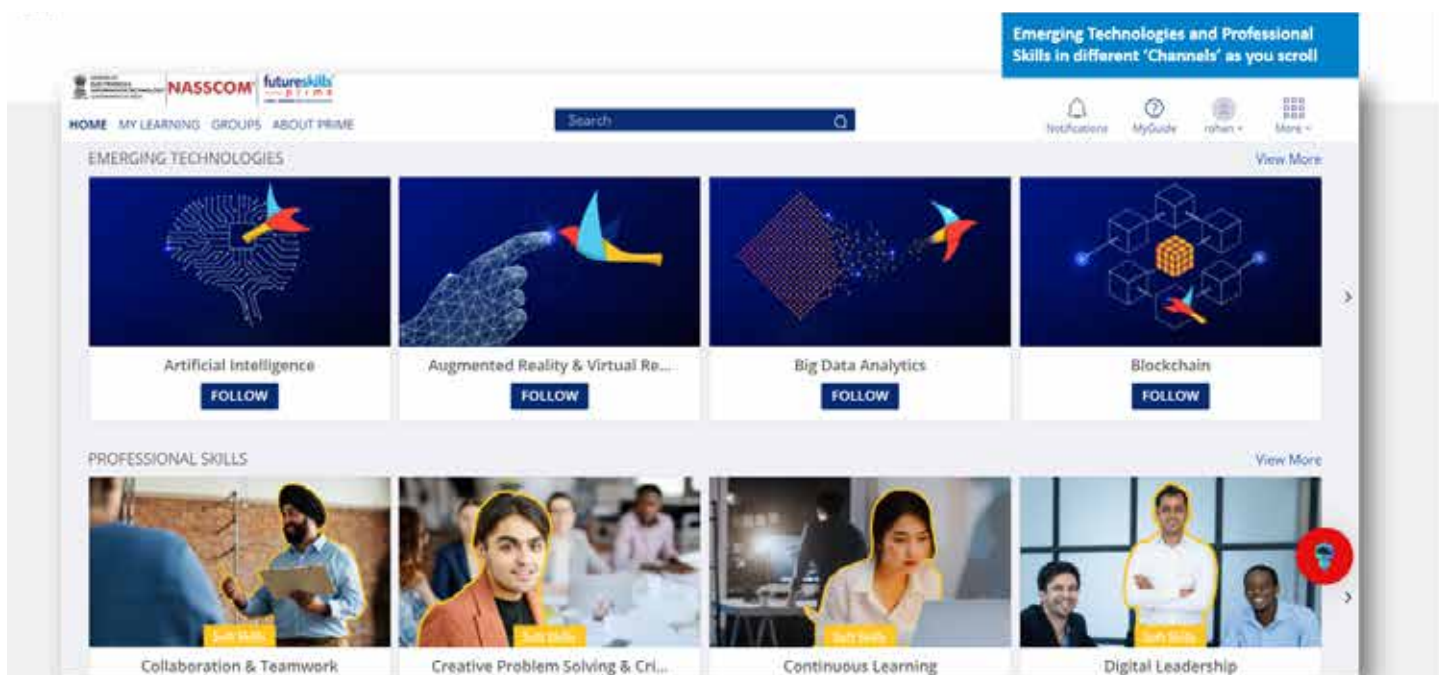**Details on re-attempts and minimum score required at module level, for it to be marked complete**

- No scores at Pathway level. Learners can take any number of attempts at Pathway level

Regarding Final Assessment (Micro Certification), how many attempts are allowed and what is the passing score

- For the final assessment there are 2 attempts. A learner needs to get 60% to clear the assessment.

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Other Information on the FutureSkills Prime platform

How to locate the 10 Emerging Technologies & 10 Professional Skills URLs to the Cognizant Digital Nurture Group Modules