# ITU Centres of Excellence Network for Asia-Pacific
# IoT Academy
## Online Training Course on
## Digital Transformation: Enhancing IoT-Driven Accessibility for PWD
## 11– 17 April 2020

## COURSE OUTLINE

### COURSE DESCRIPTION

| | |
|---|---|
| Title | **Digital Transformation: Enhancing IoT-Driven Accessibility for PWD** |
| jectives | Digital transformation is intended to empower all people by providing opportunities offered by ICTs, such as IoT, to create a more inclusive digital society. This course is jointly organized by ITU, IoT Academy & ICT Research Institute and aims to equip participants with the knowledge on the role of digital transformation in realizing IoT-driven accessibilities for Persons with Disabilities (PWD) through the use of enabling technologies and assistive tools. |
| Dates | 11– 17 April 2020 |
| Duration | 7 Days |
| Registration deadline | 8 April 2020 |
| Training fees | Free |
| Course code | **20OI24869ASP-E** |

### LEARNING OUTCOMES

The course is expected to achieve the following outcomes from this course:
- Comprehend with the concept of "Digital Transformation" and its role in enhancing IoT- driven accessibilities using fundamentals to emerging digital technologies.
- Build knowledge on the fundamentals of accessibility for PWD and how accessibility can be provided at promising levels
- Familiarize with IoT- driven enabling technologies as well as assistive tools for persons with disabilities and persons with specific needs in detail.
- Learn some practical use cases and appropriate assistive tools for PWD.

## TARGET POPULATION

The course is targeted at researchers, policy makers, regulators, experts, engineers, students in fields of IT, IOT and ICT in academia as well as organizations and industries engaged in PwD.

## TUTORS/INSTRUCTORS

Experts from IoT Academy & ICT Research Institute.

## EVALUATION

Besides the tests and their assignment score, participants will be evaluated according to their substantive posts on the discussion forum, active participation in the online chat sessions and other course activities, reflecting both the quantity and quality of time spent on the course. The evaluation details and criteria for certificates is as follows.

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| Quiz: | 60% |
| Individual Assignment | 20% |
| 1 Chat Session | 10% |
| 1 Discussion Forum | 10% |
| **Total Evaluation:** | **100%** |

*IMPORTANT: A PASSING MARK OF 60% IS REQUIRED FOR OBTAINING A COMPLETION CERTIFICATE.*

## TRAINING SCHEDULE AND CONTENTS

| Week | Day, Date | Schedule and content |
|---|---|---|
| **Week 1** | 11th– 17th April, 2020 | o Digital Transformation concept: Fundamentals & dimensions<br>o Digital Transformation concept: Emerging digital technologies (IoT, AI, AR etc.) and their role in transformation<br>o How can accessibility be provided for the PwDs and the ICT assistive tools?<br>o How can accessibility be provided at for PwD: ICT accessibility types, features, policies & stakeholders<br>o IoT driven enabling technologies for PwD: Specifications & applications<br>o IoT driven enabling technologies for PwD: Assistive systems & their effectiveness<br>o Use cases |

## METHODOLOGY

**Course Materials**: The relevant course material will be made available on the website.
**Online Discussion Forums**: Participants are expected to participate actively in discussion forums on selected topics throughout the week.
**Chat Sessions**: Online chat sessions with the Tutor will take place on Wednesday from 1400 – 1500 Hrs. Iran Time (GMT +3:30). All participants are expected to join the chat sessions as they will be graded.
**Quizzes: One <u>mandatory online quiz</u>** will be held at the end of the course
**Assignment:** There will be a **<u>mandatory assignment</u>** for the course

## COURSE COORDINATION

Mr. Ashish Narayan (ashish.narayan@itu.int) from the ITU, Mr. Naghizadeh (edu@iotaci.com) from the IoT Academy and Ms. Soheila Asgari (asgari@itrc.ac.ir) from ICT Research Institute, is at your full disposal should you require any additional information.

## REGISTRATION

It is a free course with the aim of knowledge building for all.

Registration should be made online at the ITU Academy portal.

To be able to register for the course you **MUST** first create an account in the ITU Academy portal at the following address: https://academy.itu.int/index.php/user/register

## COURSE REGISTRATION

When you have an existing account or created a new account, you can register for the course online at the following link: https://academy.itu.int/training-courses/full-catalogue/digital-transformation-enhancing-iot-driven-accessibility-pwd

You can also register by finding your desired course in our training catalogue https://academy.itu.int/index.php/training-courses/full-catalogue

*Please note that online registration should be done **before 8 April 2020**.*