



The CSIT_TEX

by Faculty of Computer Science and Technology

www.fsktm.edu.my

PROGRAMME MONTH: AUGUST

CSiT @ The CSiT_TEX Summer Program is a yearly computer science programme run by the Faculty of Computer Science and Information Technology (CSiT), UPM. The programmes are aimed at those with an interest in Python programming and Augmented Reality (AR) and will put emphasis on hands-on learning activities and interactive workshops.

Each of the two immersive, hands-on summer programmes offered has been designed by the faculty with the goal of engaging, educating, and inspiring students who are curious about computer science and its impact. Learning about computer science and how to use computational thinking can help provide new opportunities for the students.

1. TAMPERING WITH PYTHON PROGRAMMING

About the Programme

This 4-day computer program is ideal for students who are curious about exploring the basics of Python programming and are looking for the next step. Through engaging lectures and hands-on activities, students will be introduced to the fundamental principles of Python programming. Students learn how to analyse, design and implement an application.

2. RECREATIONAL ACTIVITIES

About the Programme

This 2-days recreational activities are done for the enjoyment, amusement, and pleasure for the CSiT @ The CSiT_TEX Summer Programme participants.

3. TAMPERING WITH AUGMENTED REALITY

About the Programme

In this 4-day programme, you will learn the foundation of computer vision and Augmented Reality (AR), and walk out with practical experience that you can immediately implement and use on your next augmented reality project or career. You'll learn how augmented reality systems, in tangent with their areas of application, form a new foundation for design opportunities.

Step into your own AR now at an exciting time of inception to change the world in transforming the way we all experience it in the future!

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Module 1

Module 2

Demo's

Full days of interactive

learning. Create a basic

various equipment and be

able to run excellent VR

VR experience. Use

Full days of interactive learning Learn how to build your own applications Get insightsfrom the current CS students

- Overview
 - **Environment Setup**
- Basic Syntax
 - Variable Types
- Basic Operators
- **Decision Making**
- Loop
- String
- List
- Tuples Dictionary
- Functions
- Files I/O
- Regular Expressions
- Tools/Utilities



Basic AR

- Examples of AR technologies
- Software Needed
 - Installation Unity, Vuforia, Blender
 - Creating account & how
 - to use tutorial

AR Demonstration

- Create a simple AR 0 tutorial
- Convert to APK 0

- Design and create an AR apps
 - Type of AR app design to create
 - O 3D models
 - Marker

Using Blender (Blender Tutorial)

- Blender tutorial 0
- Create own models Interface for the application

Buttons to change scene

- Buttons to exit the
- application
- Import to Unity
- Adding background sound
- How to set Video as AR
- How to set Text as AR
 - Completing full apps Converting to APK

Programme Inclusive of



















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