CSIT @ The CSiT_TEX | SUMMER PROGRAMMES

2 - 16 AUGUST 2018

For Registration

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Organised by

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AGRICULTURE • INNOVATION • LIFE

BERILMU BERBAKTI

INTRODUCTION

CSiT @ The CSiT_TEX Summer Program is a yearly computer science program run by the Faculty of Computer Science and Information Technology (CSiT), UPM. The programs 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.

The participant will have the opportunity to be in touch with professionals and specialist in the fields of Python programming and AR application. Each of the two immersive, hands-on summer programs offered has been designed by 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. Also, recreational activities are planned, including campus tours and socials to give participants a taste of university lifes.

KEY FEATURES

• **Full days of interactive learning** • **Learn how to build your own applications** • **Get insights from the current CS students**	Duration: 4 Days (Tuesday – Friday: 9am – 4.30 pm) Location: Multimedia Studio, CSiT
• **DAY 1**	• Overview • Environment Setup • Basic Syntax • Variable Types
• **DAY 2**	• Basic Operators • Decision Making • Loop
• **DAY 3**	• String • List • Tuples • Dictionary
• **DAY 4**	• Functions • Files I/O • Regular Expressions • Tools/Utilities

1. TAMPERING WITH PYTHON PROGRAMMING

About the Programme

This 4-days commuter 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 fundamental principles of Python programming. Students learn how to analyse, design and implement an application.

KEY FEATURES

Half day campus tour or cycling/hiking activity, and Shopping activity.	Duration: 2 Days (Saturday and Sunday) Location: Parks and Attraction places surrounding the UPM
• DAY 1	• Campus Tour • Hiking at Bukit Wawasan Puchong/ Bukit Melati Nilai
• DAY 2	• Cycling at Taman Botani Putrajaya o Exploration of tropical forest atmosphere.

KEY FEATURES

AR⁺	
• Full days of interactive learning • Create a basic VR experience • Use various equipment and be able to run excellent VR Demo's	Duration: 4 Days (Monday – Thursday: 9am – 4pm) Location: Location: Multimedia Studio, CSiT

• DAY 1	• Basic AR
	• Examples of AR technologies
	• Software Needed
	  o Installation – Unity, Vuforia, Blender
	  o Creating account & how to use tutorial

• DAY 2	• AR Demostration
	  o Create a simple AR tutorial
	  o Convert to APK
	• Design and create an AR apps
	  o Type of AR app design to create
	  o 3D models
	  o Marker

• DAY 3	• Using Blender (Blender Tutorial)
	  o Blender tutorial
	  o Create own models
	• Interface for the application
	  o Buttons to change scene
	  o Buttons to exit the application

• DAY 4	• Import to Unity • Adding background sound • How to set Video as AR • How to set Text as AR • Completing full apps o Converting to APK

2. RECREATIONAL ACTIVITIES

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

3. TAMPERING WITH AUGMENTED REALITY

About the Program
This 4-days program, 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!

FEES
USD1,800.00 per person
USD1,500.00 early bird
(including accommodation,
transportation and food)

REGISTRATION DEADLINE
1st July 2018

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Disclaimer:
• Participant are advised to have health/medical insurance attained in advance before arrival in Malaysia.
• Participant are advised to have good health condition and do not bear any contagious disease such as Typhoid, Tuberculosis and Malaria.
• Some activities in this programme will be held outdoor and good health is needed.
• Participant from Sri Lanka, Bangladesh and India are advised to do health screening at home country in advance before arrival.
• UPM does not bear additional activities expenses for participant outside the programme.

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Summer Programme | 2 - 16 August 2018