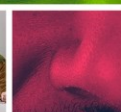




Leeds Trinity
University

WELCOME TO THE COMPUTER SCIENCE SUBJECT FOCUS DAY

**STUDY
ABROAD**
AS PART OF YOUR
DEGREE



WHAT'S INCLUDED

1. Learn more about the programme and the Computer Science team at LTU
2. Have hands-on programming with Python
 - Introduction to Turtle package
 - Design two games with Python
3. Have some fun playing around with your code



WHAT'S COVERED...

1. Types of Jobs in Computer Science
2. Our Computer Science Team
3. Course Structure including placement
4. Why LTU for Com Sci?
5. Basic Python, and Programming Activity



COMPUTER SCIENCE TEAM

Professor Yanguo Jing

Dr Nicky Danino

Dr Antesar Shabut

Mr Jim Diockou

Dr Ali Lawal Aliyu

Dr Yashar Baradaranshokouhi



POTENTIAL JOBS IN COMPUTER SCIENCE

Web Designers, App Developers,
Games Designers, Cyber Security,
Algorithm Developers, Data Analytics,
AI & Machine Learning Lead, ...

[Read more ...](#)



Our Aim Today

- Have some exposure to programming and what we do at Leeds Trinity University
- Have an opportunity to meet a member of the Computer Science team at LTU
- Ask your questions about the course
- Receive your feedback on the activity and aim to implement your input into future events (where possible)



COURSE STRUCTURE



YEAR 1

Core modules (students are required to take):

- Introduction to Tech Stack
- Team Project
- Computational Skills and Employability
- Introduction to Software Development
- Technology in Business



YEAR 2

Core modules (students are required to take):

- User-Centred Design
- Further Software Development
- Professional Development and Placement
- Team Project



YEAR 3

Core modules (students are required to take):

- Secure Development and Deployment
- Project

Students are required to choose one option module from:

- Applied Artificial Intelligence
- Data Science for Business

Students are required to choose one option module from:

- Cyber Security
- Audio Visual Programming



WHY LTU?

93% of our graduates are in
employment or further study 15
months after graduating

You're a name, not a number

A supportive university community





PROFESSIONAL WORK PLACEMENTS

with every
undergraduate degree

STUDY ABROAD

as part of
your degree



BASICS OF Python

Python:

- Open-source programming language
- Free to use and learn
- Growing quickly among major programming languages
- Applications in web & Internet Development, Science and Research, Education, Desktop GUI, Software Development, and Business applications

Read more on [About Python™](#) | [Python.org](#)



Hands-on Programming

We will cover this in three videos:

- Setting up the programming environment
 - We will use Replit online platform (replit.com)
- Introduction to the Turtle package
- Design and implementation of two games
 - Turtle competition (Whoever's turtle passes the finish line first will win)
 - Rolling dice (player with the highest/lowest number is the winner)



ACTIVITY

Video 1: Anaconda and Jupyter
Notebook Installation

Video 2: Intro to Turtle package

Video 3: Implement two games

GitHub Repository (bit.ly/repo1sfd)



Final Task

Think about fairness of the turtle competition.

Use random methods from the dice rolling example to make the competition random to be fair on both competitors.

Hints:

Listen to the points at the end of the third video (Designing and implementing games)

You may want to use other methods from the random package such as choice (*random.choice*)



ANY QUESTIONS?



THE STUDENT JOURNEY – Q&A PANEL



YOUR NEXT STEP
– complete the task
to win a prize



THANK YOU

hello@leedstrinity.ac.uk

www.leedstrinity.ac.uk/chat-with-our-students

