University of Glasgow

COMPSCI5012
Internet Technology (ITECH)

Dr Nikela Papadopoulou

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Course Schedule:

Lectures: Tuesdays & Thursdays 16.00-17.00, at JMS 438AB

Labs: Mondays 10.00-11.00, Wednesdays 9.00-10.00 & 13.00-15.00 at BORR 1028

Lecturers:

Dr Nikela Papadopoulou
(pronounced "Nee-KEH-lah")
Lecturer in Low Carbon and Sustainable Computing
Website: https://nikela.github.io
Email: Nikela.Papadopoulou@glasgow.ac.uk
Office: F133 @ 18 Lilybank Gardens (SAWB)
Office Hours: Wednesdays 10.00-11.00

Course Aims

Keyword: Web application development

- To provide an overview of the **ongoing developments** in web application development.
- To promote the **disciplined design** and development of distributed web applications.

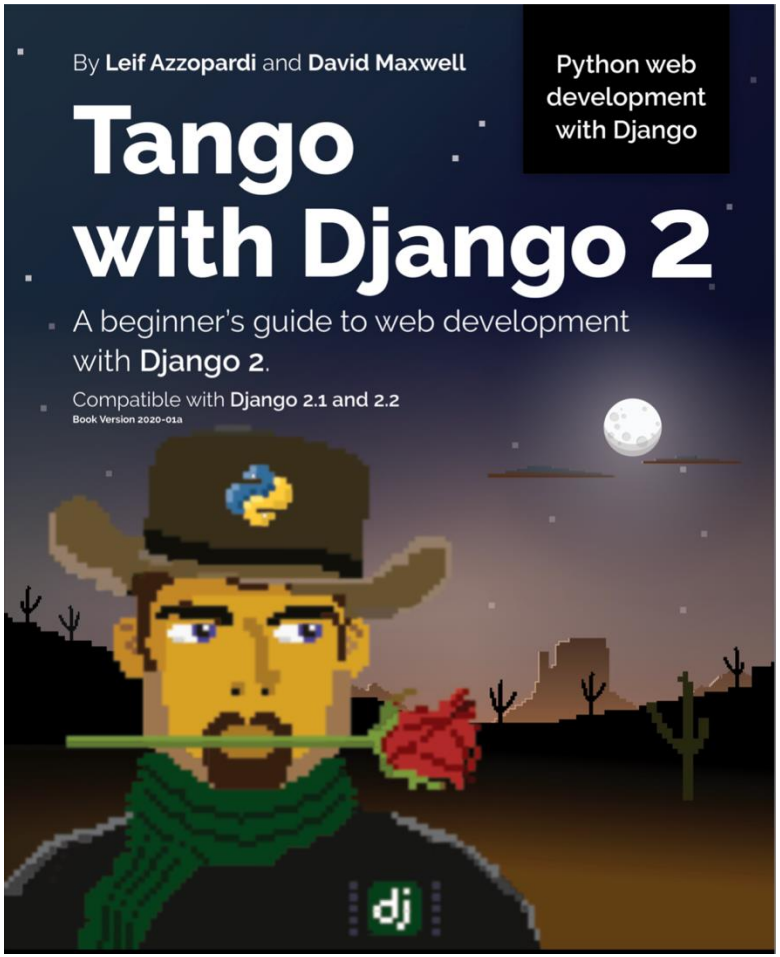
- To strengthen students understanding of the **context and rationale** of distributed systems.
- To explain the **messaging and protocols** used as a communication mechanisms in web applications.
- To develop the ability to **implement and deploy** distributed web applications.

Course Spec: https://www.gla.ac.uk/coursecatalogue/course/?code=COMPSCI5012

By the end of the course...

1. Illustrate and describe the **n-tier client-server architecture** of web applications
2. Explain the role of **messaging and protocols** within the design of web applications
3. Explain the opportunities and challenges relating to developing **web applications in a distributed environment**
4. Identify and critically analyse the **requirements** of a web application
5. Design and specify the **architecture** of a web application
6. Evaluate and assess **specifications** and designs of web applications
7. **Construct, build and deploy** a web application

Course Textbook



- We will use Django as the main development framework
- Python, HTML and CSS
- Git and GitHub

Course structure (per week)

- Lectures (2 hours)
  - Tuesdays 4pm-5pm, Thursdays 4pm-5pm
  - No lecture on Tuesday 20/1
  - No lectures on Weeks 5 and 11
  - *Please check the course announcements via Moodle*

- Own study including working on coursework (7 hours)
  - Study lecture material
  - Prepare/Work on quizzes
  - Work your way through the "Tango with Django" book
  - Work on your group coursework

- Drop-in Labs (1 hour)
  - Mondays 10pm-11pm / Wednesdays 9am-10am / Wednesdays 1pm-2pm /Wednesdays 2pm-3pm
  - Use if you get stuck – Tutors and lecturers will be there to help
  - Can use to meet with coursework group

See Schedule.pdf (gla.ac.uk) on Moodle

Assessments

- **Individual coursework (40%)**
  - 4 x 15-minute Lab Quizzes (10% each)
  - Use them as checkpoints – if you don't do well on a quiz, revise material
  - Quiz questions are similar to what you will be asked to answer during the exam
  - Quizzes open on Thursdays for 24 hours until 4.30pm on Friday
  - **Deadlines:** Friday 4.30pm on 30 January, 6 February, 6 March, 13 March
- **Group coursework (40%)**
  - Design, develop, and deploy a web application using Django
  - **Phase 1:** Design specification (10%) - Deadline: 4.30pm 13 February
  - **Phase 2:** Implementation (30%)
    - Project video presentation (5%) – Deadline: 4.30pm 20 March
    - Project application (25%) – Deadline: 4.30pm 20 March
- **Individual Exam (20%)**
  - During April/May

Group work

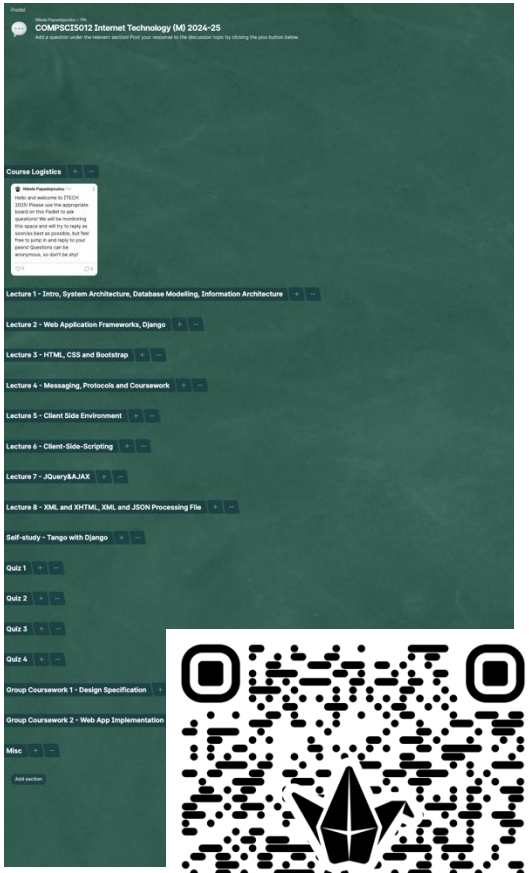
- For the group coursework, you will work in groups of 3. Please register with a group on Moodle until Monday 20/1 8pm.
  - You cannot change groups unless you have very good reasons.
  - Each group must have exactly 3 members.
  - If you are unable to find a peer to join your group, you will be automatically assigned to a group that is missing a member.

  This has changed from last year, responding to student feedback about group assignment and collaboration

- You must split the coursework effort equally and fairly across the group.
- All members of a group will usually receive the same mark. If there are issues in your group, you are encouraged to resolve the issue internally by negotiation first. If this is not possible, the course coordinators should be asked to intervene as soon as possible.
- The mark awarded to individual members of the group may be adjusted to reflect the individual's contribution using Deltas (we might adjust to H if there was no contribution).

Support and Communication

- Let us help you: Ask questions!
- Ask questions in person during the lectures and labs
- Use Padlet for questions outside the lectures and labs



- **Do not** DM or email the course coordinators or the lab assistants

  Unless
  - You have a problem that will affect your performance
  - Problems with your group and group project's progress

  (in which cases, email the course coordinators)

Code of conduct

- You are encouraged to ask questions during the lectures by raising your hands
- Only one person talks at any one time
- We will all treat each other with respect and dignity. Bullying and harassment will not be tolerated.

Expectations

What we expect from you

- Attend lectures
- Do your own study
- Complete quizzes/ group coursework
- Read around the subject and try things for yourself
- Ask questions in lectures and labs. This is your chance ☺
- Plan your learning hours carefully

We will do our best to...

- Make lecture notes and videos available on Moodle
- Give you follow up references and additional reading material
- Make sure labs are running smoothly with good GTA support
- Make reasonable adjustments
- Arrange extra support if normal route (padlet, GTAs, etc.) is exhausted
- Respond to email on student-specific issues

Types of Feedback in ITECH

- Offline Q&A on Padlet
- Online Q&A during lectures
- 1-1 support by GTAs during labs
- Detailed feedback on your group projects

Plagiarism and Cheating

- If you copy someone else code without attribution and present it as your own work this is plagiarism
- If you plagiarise, you will be reported for academic misconduct and sanctions applied.
  - Sanctions can be a grade reduction, receiving an H for the assessment or the whole course.
  - For serious or repeated offences you can be expelled from the university.

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What now?

- No labs on week 1
- Attend the first lecture