**Institute of
Public Administration**

COMP41530 - Web Services in Cloud Computing

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Associate Lecturer, IPA
Lecture 00

Introduction & Welcome

- COMP41530
- Web Services in Cloud Computing
  - MSc in Computer Science by Negotiated Learning
  - Core course of Cloud Computing Stream
  - Optional course in other Streams and Courses

Contact Details

- Lecturer:
  - Barry Corish
    - barry.corish@gmail.com
    - Course Forum (IPA Moodle)
- Programme:
  - Christine Kelly, ckelly@ipa.ie

Questions, comments, feedback

- Questions:
  - At any time - before, during or after lectures
  - By email
  - In Moodle forum (public)
- Feedback, comments, problems:
  - Always welcome
  - Tell me early!
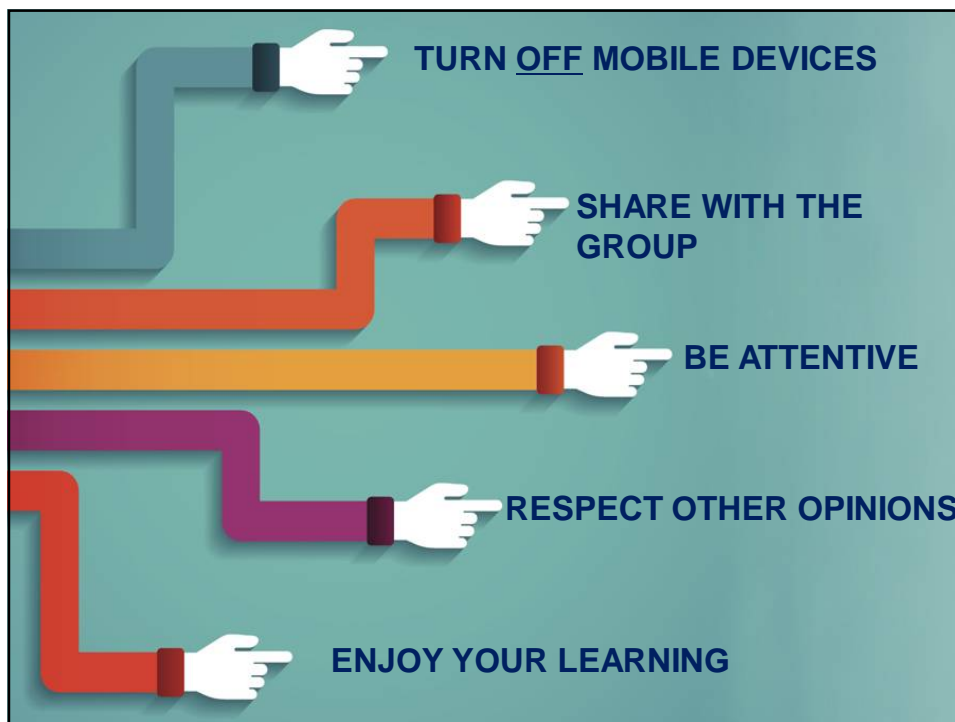
Course Structure

- 13 Week duration (to be confirmed)
  - Weeks 1-11 Lectures – in IPA, Lansdowne Rd.
  - 1 Full day Saturday session
    - Date TBC
  - Week 12: Exam
    - Date to be confirmed
  - Autonomous learning is expected!

Lecture Housekeeping

- Lectures
  - 18:00 to 21:00 (approx.)
  - Coffee: 19:30 to 19:45 (approx.)
  - Car Parking
    - Limited, first come, first served
  - Fire Alarms
    - Stay in area until we know you're safe!
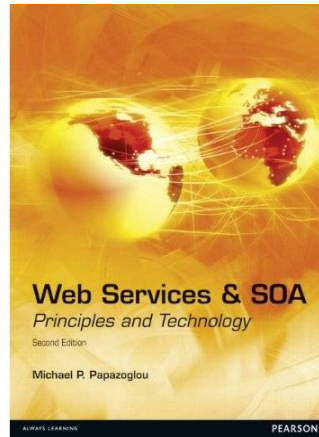 - Emergency Exits

TURN **OFF** MOBILE DEVICES

SHARE WITH THE GROUP

BE ATTENTIVE

RESPECT OTHER OPINIONS

ENJOY YOUR LEARNING

Lectures: (Provisional, subject to change)

IPA
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ADMINISTRATION

Week#	Title.	Chapter(s):
01	Introduction to Web Services and SOA	1
02	Web Services Systems and Technologies	2
03	Introduction to XML, Practicals 1 & 2	3
04	XML Schemas, Practicals 3 & 4	3/4
05	WSDL and SOAP, Practical 5 : Use a web service	5
06	**Multiple Choice Exam**, Practical 5.	-
07	Service Discovery and UDDI	6
08	Security in SOA and WebServices	11-12
09	BPM & SOA Development Lifecycle	15-16
10	JSON etc., Practicals 9-10	17
11	Web Service Management	18
12	**Exam** (this date TBC)	-
TBC	**Full Day Saturday – Date TBC – Practicals 6-8**	-

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Resources: Book

- Web Services and SOA – Principles and Technology
  - 2nd. Edition.
  - Dr M. Papazoglou
  - Pearson Education
  - www.pearson-books.com
  - ISBN-10: 0273732161
  - ISBN-13: 978-0273732167

Web Services & SOA
Principles and Technology
Second Edition

Michael P. Papazoglou

ALWAYS LEARNING
PEARSON

Resources: UCD CSMoodle

- Forum and resource centre for this course.
- Formal communication channel for course – if it's on Moodle, you've been told.
- Register for Moodle Access:
  - https://csmoodle.ucd.ie/moodle/
  - Search for "41530", enrolment Key "webcc2018"
- Content for this course on Moodle:
  - Lecture slides, practical exercise notes
  - "Other reading" (or links to it)
  - Forums – part of evaluation!

Practicals (1/2)

- Here, during Lectures, plus the Saturday
- We will be:
  - Creating XML schemas and data
  - Investigating and using Web Services
  - Building & Publishing our own Web Services
  - Working with other technologies
- Not a programming course!

Practicals (2/2)

- Platform for Practicals:
  - Open Source/Free Tools:Oracle Java JDK v1.7 (aka Java 7) - www.java.com
    - Eclipse JEE Juno - www.eclipse.org
    - Apache Tomcat - www.apache.org
    - SoapUI Tester (free version only, not Pro version)- www.soapui.org
  - ...all available on Linux, Windows and OSX
- Get email working from your IPA workstation
  - Some way to send work-in-progress "home"

Evaluation: Marking Scheme

- 45% - final exam (2 hour at end of semester – usually 1 week after last class)
- 20% - mid-term MCQ – about week 6
  - 50 questions, 1 hour - .5 negative marking.
- 35% Continuous Assessment
  - 25% Assignments – Mandatory of all assignments required to pass course.
  - 10% - Forums, must complete at least 6 in order to qualify for final exam.

Evaluation: Assignments (1/2)

- 2 Assignments
  - 1 Technical Assignment
  - 1 Essay based
- Dates TBC
  - 2 Weeks to complete each

Evaluation: Assignments (2/2)

- Part of final mark for course
    - Deadlines are strict - late submission will be penalised
    - You <u>must</u> submit all assignments
    - Your submission must be <u>entirely your own work</u>
    - If you quote anything you must <u>give a proper citation</u>
    - More details as assignments are set

Evaluation: Forum Participation

- CSMoodle Forum
    - A new topic each week.
    - Write a brief note on the topic (300-500 words)
    - Then discuss each others contributions
    - Set each lecture from Lecture 3 onwards, due before next Lecture
- Participate:
    - Mandatory Participation
    - Not a competition, no ranking
    - Refer to course materials
    - Pull in external resources
    - No penalties for being wrong!

Plagiarism & UCD Computer Science

- Plagiarism is a serious academic offence
  - [Student Code, sections 6.2 & 6.3] or [UCD Registry Plagiarism Policy] or [CS Plagiarism policy and procedures]
- Our staff and demonstrators are proactive in looking for possible plagiarism in all submitted work
- Suspected plagiarism is reported to the CS Plagiarism subcommittee for investigation
  - Usually includes an interview with student(s) involved
  - 1st offence: usually 0 or NG in the affected components
  - 2nd offence: may be referred to the University disciplinary committee
- Student who enables plagiarism is equally responsible
- Resources:
  - http://www.ucd.ie/registry/academicsecretariat/docs/plagiarism_po.pdf
  - http://www.ucd.ie/registry/academicsecretariat/docs/student_code.pdf
  - http://libguides.ucd.ie/academicintegrity
- If in doubt, ask!

Evaluation: Exam

- 2 hours exam
- Date to be confirmed, normally the Thursday after the last lecture
- Structure:
  - Q1 – 10 small questions, compulsory
  - …then answer any 3 from 4 remaining questions.
  - No programming, but questions and answers may include fragments of XML, WSDL etc.

Questions?