

INTRODUCTION – CT 216 SOFTWARE ENGINEERING I

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Module overview (subject to change)

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- **Thursday IT 101 1-3 PM**

- **Software Engineering (Dr. Enda Barrett) – S1 + S2**
- **Group project – (Dr. Enda Barrett) – S1 + S2**

- **Blackboard**
 - ▣ Notes
 - ▣ Problem sheets
 - ▣ Assignment submission
 - ▣ Announcements

- **Lab Tutors: Daniel Kelly**
 - ▣ Labs start in a couple of weeks – **Friday 12 - 2PM IT 106**



Blackboard

Module Details

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- Exam at the end of the year (Summer 2023)
 - No exam at the end of Semester 1
 - 4 questions answer 3

- Group project will account for 40% of the final mark
 - Delivery of a spec – 5% - Group
 - Project Demo and Final Report (last week of term)
 - Graded holistically at the end

Semester 1 goal

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- Learn about the software engineering principles and methods which enable the building of large team based software systems
- Understand the importance of version control and team based development
- Get cloud services experience and configure the deployment environment for your group based projects

Blackstone Launchpad

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□ Blackstone LaunchPad



Blackstone
LaunchPad

Group Projects



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□ Groups of 4 people

- Web based application i.e. You will build a **web application** using (HTML, CSS, JavaScript), you will build the backend in **Node.js**, deploy to Firebase and utilise a data storage component i.e. **Firestore**

■ Past projects included

- Chat rooms
- Personal Dashboards
- Photo sharing application

Open Web Technologies and You



- Some difference between groups!
- So get thinking about what you would like to do!
- I wish to keep the project groups within the class splits during the face to face slots where possible.

Group project dates

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- Please form your project groupings by
Friday 23rd September at 17:00
- Nominated group lead should email me (Enda.Barrett@nuigalway.ie) the following
 - Team/Group name (“The coders”),
 - Names of each member,
 - Group sizes of 4 work best
 - Come up with an idea and mail it to me
 - real time event app
 - instant messenger
 - social media tool
 - If you don’t have a group I will randomly assign you
- If you opt out you will get 0!

Web applications

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- Clear separation of concerns
 - ▣ Frontend view code or UI (CSS, HTML)
 - Look and feel, structuring content
 - ▣ Frontend dynamic content (JavaScript, VueJS (potentially))
 - GET/POST methods, handling/updating data
 - ▣ Backend server side code (Node.js) – **Firestore functions**
 - Returning data, developing APIs
 - ▣ DB component (**Firestore**)
 - Schemas, queries for document retrieval
- Basic app up and running by Christmas deployed using Firebase.