

7CCSMPRJ & 7CUSMUIP

MSc Projects

Intro Presentation

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Who are you?

- I am an **academic** in the Department of Informatics
- You can call me Tim or Dr Neate, if feeling formal
- I co-ordinate the MSc projects
- I am the contact for the module
- I am **not your project supervisor** - they are the ones who will answer your technical questions



A bit about you (poll)

pollev.com/timothyneate91

Contacting Me

- In general, try to use the **forum** on KEATS so others can see the answer, or answer themselves
- Else, timothy.neate@kcl.ac.uk
- If it is a long/complex query - **office hours** are better!



What is an MSc project?

- Should be a **substantial** piece of individual work
- Should demonstrate the **competencies** gained in your MSc
- Should have some **research** element

See the [module specification](#) for more overview

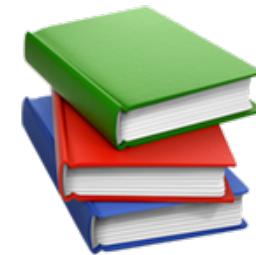
What is an MSc project?

- Likely **substantial practical work** (e.g. programming, analysis, model development)
- Could be an **implementation** or **quantitative** evaluation of algorithms/protocols or some software
- May alternatively be purely theoretical

See the module spec for more

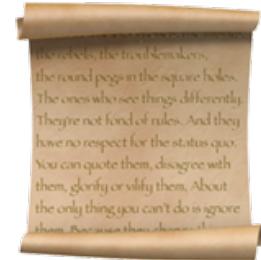
What is *not* an MSc project?

- A **review of literature** - entirely or mostly
- **Just an implementation** - there must be some academic element
- A **group project** - this must be done individually



What can an MSc project be?

- It should be **hard**, but **fun!**
- Should give you the chance to **show something off** to prospective employers
- A potential **path** onto a PhD or further academic pursuit



Administration

- ▼ Course administration
- Media Centre

Information on KEATS

Key Contacts

Module leader: Dr. Timothy Neate

Email: timothy.neate@kcl.ac.uk

- General introduction, guidelines and regulations

Office Hours: 10:00 - 12:00 Tuesdays (UK time)

[Teams Meeting link for 7CUSMUIP/7CCSMPRJ INDIVIDUAL PROJ NSY 000001/Workshop/02 JT](#)

- Deliverables, assessment and marking guidelines

Drop-in to the Teams session at the beginning of the session. If you would prefer to discuss something privately, email me separately and we can organise an individual meeting at other times.

- Links to useful resources

Administrative support: pgt-informatics@kcl.ac.uk

- Submission links

Introduction

- Deadline information

The student must undertake an individual research project that is the MSc dissertation topic, which can be practical, theoretical, or a combination of both. The project, which is carried out under the supervision of a member of academic staff, must clearly be at graduate level but need not yield substantially original results. A project cannot be entirely or mainly a review of literature. A project must include practical and/or theoretical results obtained directly by the student and not merely taken from previous literature.

The project is worth 60 credits - so a substantial part of the MSc as a whole. It is also an exciting opportunity to really get involved in a piece of work for an extended period of time. Ideally, your MSc project will give you something to demonstrate your competency to future employers or may inspire you to further academic pursuit.

Before asking a question - please check and recheck KEATS

Contact Information

**NMES Student Tech Support**

≡ NMES Tech Support Wiki

?

Administration

- ▼ Course administration
- Media Gallery

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King's Resources

- Email
- Student Services
- King's Academic Skills for Learning
- Equality, Diversity & Inclusion
- Disability Support
- IT Services
- Library Guides
- LinkedIn Learning
- Health & Wellbeing

NMES Student Tech Support

- NMES Tech Support Wiki
- Support Portal



MSc Individual project (7CCSMPRJ & 7CUSMUIP) (2021/22)



[Teams Meeting link for 7CUSMUIP/7CCSMPRJ INDIVIDUAL PROJ NSY 000001/Workshop/02 JT](#)

▶ Open all ▾ Close all

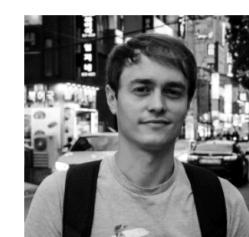
▼ Module Overview

Introduction

Each MSc student must undertake an individual research project that is the MSc dissertation topic, which can be practical, theoretical, or a combination of both. The project, which is carried out under the supervision of a member of academic staff, must clearly be at graduate level but need not yield substantially original results. A project cannot be entirely or mainly a review of literature. A project must include practical and/or theoretical results obtained directly by the student and not merely taken from previous literature.

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Contact Information

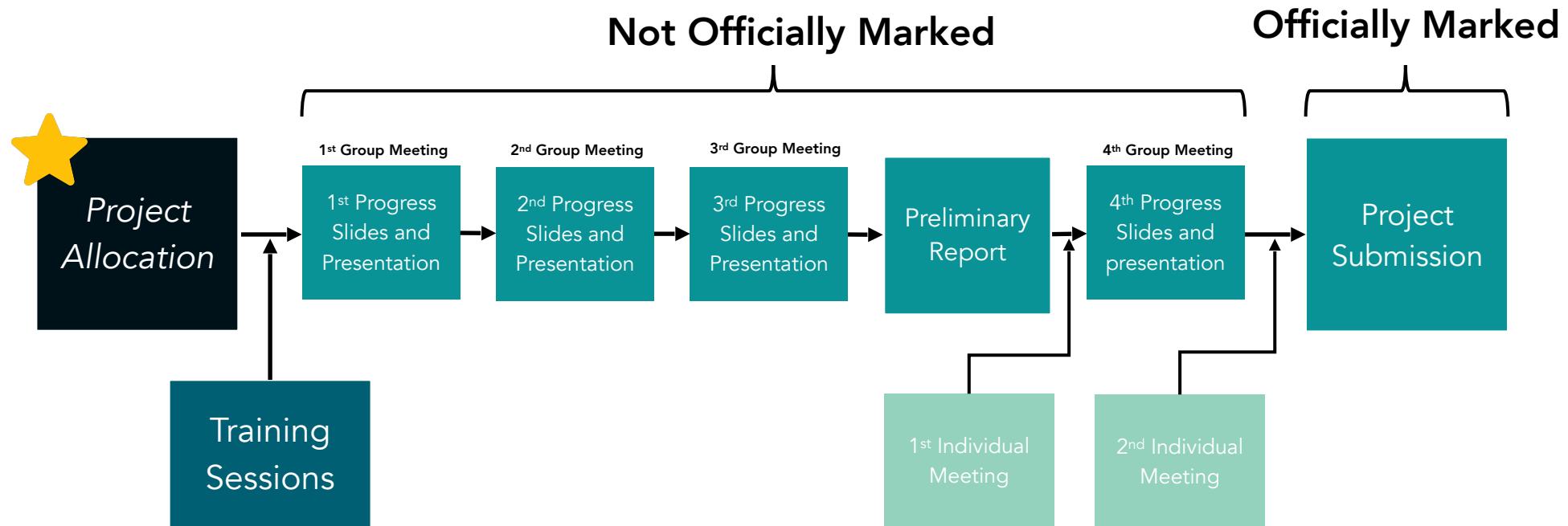


MSc Individual Project

- All MSc students must undertake an **MSc project**
- Each student will have a project **supervisor** and a **topic**
- The project runs **December** until **August**
- **Final submission** is at the beginning of **August**
- It is worth 60 credits — **300 hours of focused work**



Deliverables and Deadlines



All progress slides and reports must be submitted via KEATS

Timeline: Key Dates & Deliverables

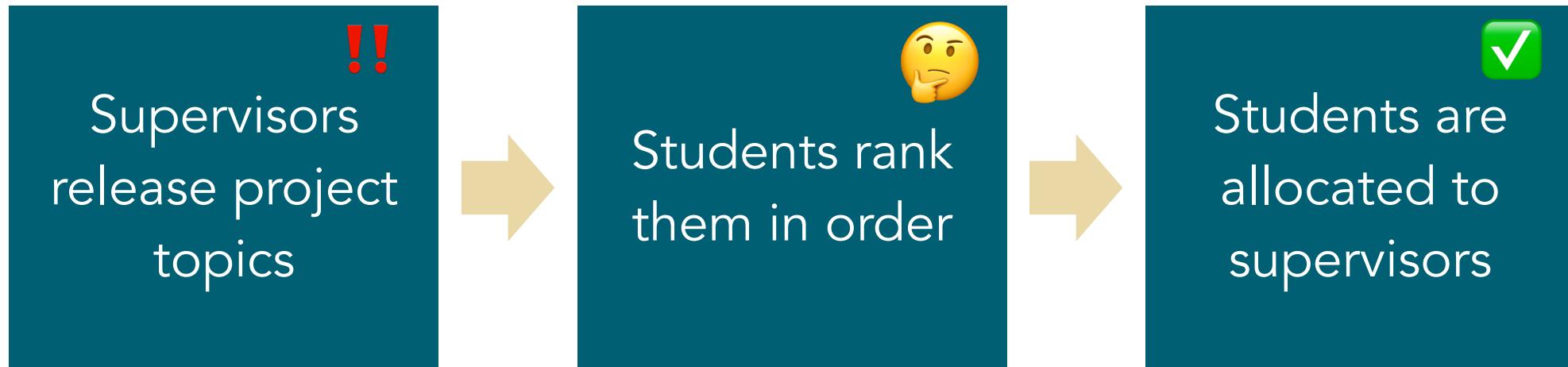
Deadline (all dates 5PM)	Remark
17th November 2021	MSc topics are released to all MSc students
8th December 2021	Deadline for MSc students entering a ranked list of topics
13 th December 2021	Publication of project allocations
4 th February 2022	1 st progress slides due. The 1 st group supervision meeting has to be done by this date.
25th February 2022	2 nd progress slides due. The 2 nd group supervision meeting has to be done by this date. For students working with datasets, the progress slides should cover the data acquisition.
18th March 2022	3rd progress slides due. The 3 rd group supervision meeting has to be done by this date.
14th April	Submission deadline for MSc preliminary project report.
13 th May 2022	Feedback on MSc preliminary project report and 1 st individual meeting done by this date.
24th June 2022	4 th progress slides due. The 4 th group supervision meeting has to be done by this date.
15th July 2022	2 nd individual meeting has to be done by this date.
8th August 2022	Submission deadline for MSc project FINAL report (a single file in pdf format), source code (depending on project nature, as a single supplemental file, e.g., in zip format).
10th August 2022	Video presentation due

Please note: these are **indicative** and may change - see KEATS for definitive version

Urban Informatics

For **7CUSMUIP Urban Informatics Project**, Dr Yijing Li
(yijing.li@kcl.ac.uk) will provide further information on
KEATS or by email.

Project allocation



Project allocation system (EMS)

Student Projects 2019-2020

Project Selector

Informatics BSc/BEng All programmes All supervisors

Search projects: lam

Only free projects: Only chosen projects:

Found projects: 5

Project Supervisor	Status	Title	Non-standard Equipment	Number of Interested Students / Allocated Student	Preference
Lam, Hak-Keung	Free	[HKL01] Face Creation and Classification using Generative Adversarial Networks			<input type="checkbox"/>
Lam, Hak-Keung	Free	[HKL05] Auto Parking with Reinforcement Learning			<input type="checkbox"/>
Lam, Hak-Keung	Free	[HKL03] Hand Gesture Recognition using Deep Learning Techniques			<input type="checkbox"/>
Lam, Hak-Keung	Free	[HKL04] Auto Driving with Reinforcement Learning			<input type="checkbox"/>
Lam, Hak-Keung	Free	[HKL02] Classification of Seizure Types/Phases using Deep Learning Techniques			<input type="checkbox"/>

Project Allocation

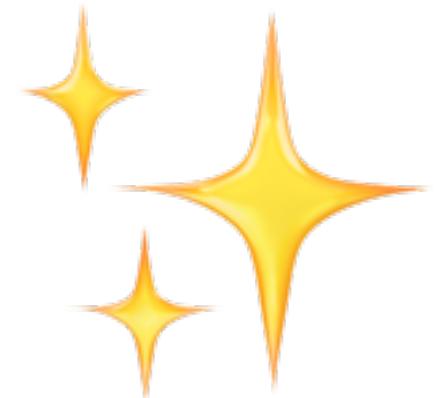
- Project allocation is done by an **automated** system [1] (adaption thereof)
- You tell us a **list of supervisors** & projects (rank order that you like)
- The algorithm tries to **match** you up with one
- If the student does not provide a ranked list of project topics, a **random supervisor** will be allocated



[1] Abraham, D.J., Irving, R.W. and Manlove, D.F. *The student-project allocation problem*. Proc. of ISAAC 2003.

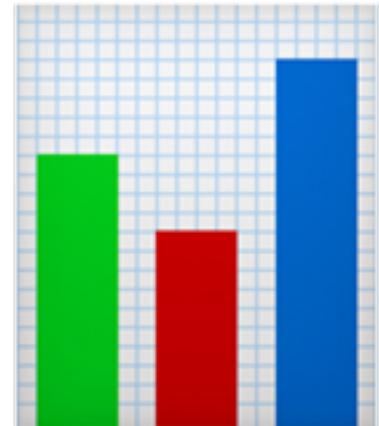
Project Allocation

- The project algorithm optimised for the **population**, not the individual
- In many cases, supervisors will be **flexible** with their project scope to accommodate
- More info on the KEATS page



MSc Data Science Differences

- Project **must** involve datasets, which are available before the project starts.
- Datasets should be **provided by supervisors** or **publicly** available.
- Students are **not supposed to collect data** themselves



Assessment

Components	Markers	
Four progress slides and progress presentation	Project Supervisor	
MSc preliminary project report	Project Supervisor	
MSc project FINAL report + source code	Project supervisor (1 st marker), 2 nd marker, (3 rd marker when necessary);	
MSc project video	Project supervisor (1 st marker), 2 nd marker, (3 rd marker when necessary)	

Not Officially Marked

Officially Marked

Final report mark (including code, etc): 90%

Video presentation mark: 10%

Assessment

- MSc project final **report**, source **code** (depending on the project nature) and **presentation**
 - Pass mark: 50%
- Assessment is based on the work **submitted** to **KEATS**



Plagiarism and How to Avoid

Plagiarism is when you use someone else's work
without acknowledgement. May include:

- Concepts
- Design
- Ideas
- Code
- Software libraries
- Text
- Diagrams
- Quotations
- Tables
- Approaches
- Methods
- Results
- Techniques
- etc...



How to Avoid Plagiarism

- Provide **references**
- Use your **own words**
- Quote **others' words**
- **Turnitin** system
- Do not put your work publicly on **Internet**



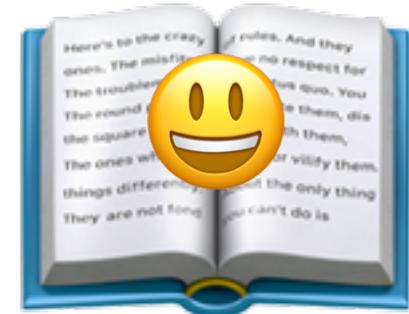
Tips for Projects

- Work **early** and **regularly** - this cannot be done at the last minute
 - 300hrs - we expect something **substantial**
- **Attend group** and **individual** meetings
- Project **plan** (be realistic)



Doing a good report

- Go to the **report writing session** (info soon)
- Demonstrate a good **understanding of the topic**
- Highlight your **contributions**
- Present **clearly and systematically** the details and results



Doing a good report

- Provide **captions** for figures/tables; number equations/figures/tables
- Provide **references** with complete information
- **Font size/face** must be consistent throughout the report



Obvious (but important) stuff

- Always **backup** your files/data - loss not excuse for an extension
- Ensure **report works** on others' machines
- Make sure that the **uploaded version is** correct
- Upload reports **before the deadline** - portal closes **exactly** at the deadline



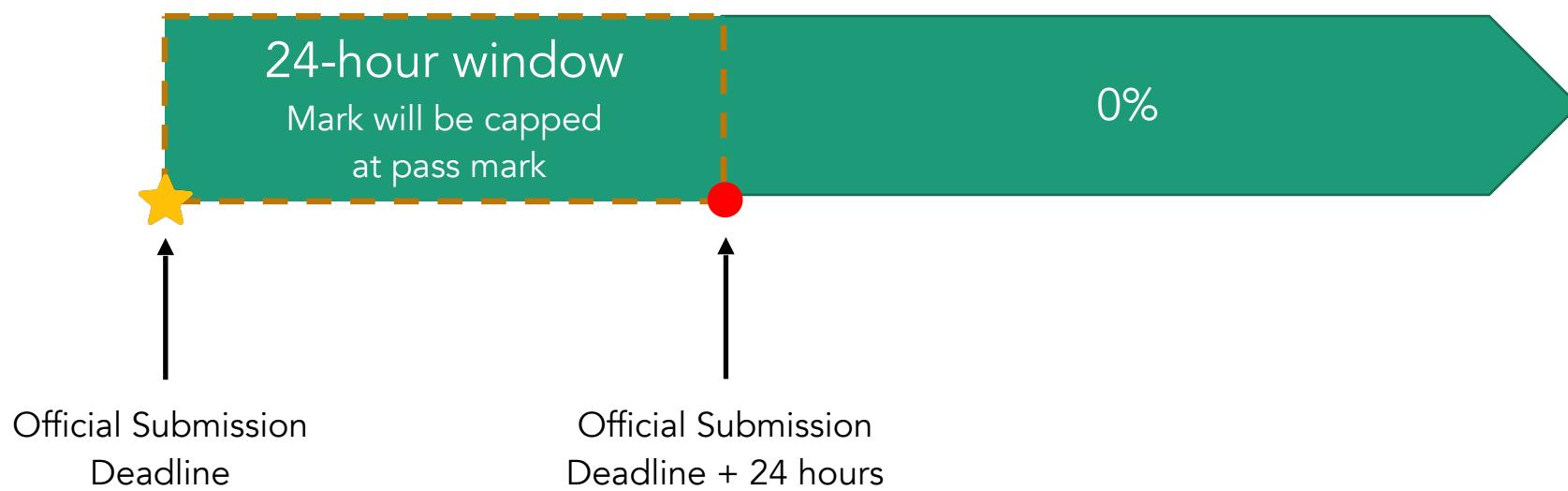
Resit/Resubmission

- Core modules (E.g. MSc Projects) **cannot be condoned** - you **need** to pass
- **Resit/Resubmission:**
 - **Resit:** do a new project next academic year
 - **Resubmission:** resubmit the same project after revision (usually marks within 41 to 50 can be recommended, but not automatic)



Late Submissions

Late submission within 24-hour window after deadline without approved mitigating circumstances



"How to Fail [the Project] Most Successfully"

- Work last minute
- No submission
- Incomplete submission
- Late submission
- Plagiarism/Collusion
- Poorly-written report



Ethics

- You may need **ethical approval** to do your project, for example, where:
 - You have involvement with **human participants**
 - You use **sensitive data sets**
- If in doubt, **ask your supervisor**
- *Penalties can be severe*



See [this link](#) for information about research ethics.

Additional Resources

- You may need **additional resources** to complete your project
- There is a **small** budget for this if required - you must **make a case** (contact me)
- We have some high-performance computing facilities (such as Rosalind)*



See [this link](#) for information about Rosalind.



Thanks

pollev.com/timothyneate91