

Basic details

UID		Cohorts covered	Earliest cohort	Latest c
Long title	Individual Research Project in ADIC			
New code	ELEC70094	New short title		
Brief description of module (approx. 600 chars.)	The individual research project is the culmination of your postgraduate studies and constitutes a piece of individual research that is expected to have some element of originality and scientific rigour. For this module you will complete an individual research project in your chosen area of research that would require you to adopt analytical, computation and/or experimental methods. You will be supervised by an academic who is expert in the topic area of the project. Projects in industry are also permitted under the co-supervision of an academic staff and needs to be approved by the course director. Projects within Imperial College, but in other Departments, are also encouraged with prior approval by the MSc Director.			
726 characters				
Available as a standalone module/ short course?	N			

Statutory details

Credit value	ECTS 40	CATS 80	Non-credit N	HECOS codes
FHEQ level	Level 7			

Allocation of study hours

	Hours	
Lectures	0	
Group teaching		<i>Incl. seminars, tutorials, problem classes.</i>
Lab/ practical	0	<i>Inc. professional and research skills training</i>
Other scheduled	25	<i>Incl. project supervision, fieldwork, external visits.</i>
Independent study	975	<i>Incl. wider reading/ practice, follow-up work, completion of assessments</i>
Placement		<i>Incl. work-based learning and study that occurs overseas.</i>
Total hours	1000	
ECTS ratio	25.00	

Project/placement activity

Is placement activity allowed?

Module delivery

Delivery mode	Taught/ Campus	Other	
Delivery term	Year-long	Other	

Ownership

Primary department	Electrical and Electronic Engineering
Additional teaching departments	

Delivery campus South Kensington

Collaborative delivery

Collaborative delivery? N

External institution
External department
External campus

Associated staff

Role	CID	Given name	Surname
Module Leader		Thomas	Clarke

Learning and teaching

Module description

Learning outcomes	On successfully completing this module, you should be able to: 1. plan and manage a research project over an extended period; 2. take personal responsibility for your work; 3. tackle open-ended research work and apply prior theoretical knowledge to practical situations; 4. critically review information from a wide range of sources; 5. adopt appropriate analytical, computational and/or experimental methods to meet your project objectives; 6. communicate the outcomes of the project work effectively and accurately in both a written and oral format.
Module content	Content varies annually based on project titles proposed by students and staff, and student preferences. A project may consist of an integrating review, the use of existing theory for some particular application, investigation of design techniques, a detailed extension of existing theory or a deeper investigation into a laboratory experiment. Clarity of presentation and evidence of understanding in depth are required. The report should evaluate the environmental and societal impact of the proposed solutions and suggest ways to minimise adverse impacts.
Learning and Teaching Approach	You will carry out the individual research project under the supervision of an academic staff. You will spend the majority of your time in self-directed study, reviewing literature, utilising theoretical, computational or experimental methods to meet your project objectives. You will be supported by regular meetings with your supervisor(s), and possibly with senior researchers (PhD students or postdoctoral researchers), presenting your progress, discussing your findings and agreeing on future plans. The research project will be allocated in December and you are expected to work on it on a part time basis during the spring term. From May onwards, you will be working full-time on your research project. As part of the research project, you will also attend a formal Research Skills training which is designed in collaboration with the Graduate School. This comprises two hours of workshops

Assessment Strategy	Your performance throughout the project is summatively assessed by your supervisor and an independent marker based on a final thesis and formatively assessed during your regular progress meetings with your supervisor. Your ability to communicate your work and research findings in writing is summatively assessed through the thesis. In addition, an oral poster presentation (about 15-20 minutes) is held to test your understanding and discuss your findings. The following aspects of the project are considered: - the student's performance regarding project management, understanding of the background and context, initiative, perseverance in dealing with difficulties, theoretical, computational and practical achievements - the technical content of the final report - the size and quality of the part of the project report that could be published in a reputable conference proceedings or journal - any special factors contributing to the performance on the project - the Interim Project Report - the report(s) from the external organisation in the case of projects taking place outside the university
Feedback	You will receive oral feedback on your progress on a regular basis throughout the project from your supervisor(s), primarily during supervision meetings. More structured feedback will be given orally at the end of the poster presentation by both the project supervisor(s) and independent marker.
Reading list	Project-specific reading lists will be provided by individual supervisors.

Quality assurance

Date of first approval	
Date of last revision	December 2024
Date of this approval	December 2024

Office use only

QA Lead	
Department staff	
Date of collection	

Module leader	Thomas Clarke
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Date exported	
Date imported	

Notes/ comments

Assessment details

Grading method

Numeric

Pass mark

50%

Assessments

[illegible]