

## Regulations for the award of the Doctor in Engineering (EngD) in Quantitative Non-Destructive Evaluation 2024/2025

---

### Admission and Registration

1. The normal minimum entrance requirement for registration for the EngD degree is:
  - a. a Second Class Honours integrated Master's degree of a UK university or an overseas qualification of an equivalent standard obtained after a programme of study extending over not less than four years in a university (or educational institution of university rank), in a subject appropriate to that of the programme to be followed; *or*
  - b. a Second Class Honours Bachelor's degree of a UK university or an overseas qualification of an equivalent standard obtained after a programme of study extending over not less than three years in a university (or educational institution of university rank), in a subject appropriate to that of the programme to be followed; *or*
  - c. a Postgraduate Taught degree of a UK university or an overseas qualification of equivalent standard obtained after a programme of study extending over not less than one year in a subject appropriate to the programme to be followed; *or*
  - d. a professional or other qualification obtained by written examinations and approved by the university as an appropriate entrance qualification for the EngD degree.
2. Applicants possessing alternative qualifications may also be considered by the university.
3. The university may register for the EngD degree with exemption from part of the programme of study a person who has completed a programme of study for a research degree elsewhere in the UK, where that programme of study is deemed equivalent to that provided at Imperial College London.
4. An applicant for registration may be required to pass a qualifying examination (see [Qualifying Examination](#)) and may also be required to meet additional qualifications for admission as determined by the university.
5. English language and other tests may be prescribed by the university.
6. Every applicant must make application to the university in accordance with the procedure prescribed by the university.
7. Students already registered for a PhD may transfer to EngD registration within 12 months of registering and will be required to complete the 'taught' part of the EngD programme within 36 months rather than 24.

## Qualifying Examinations

8. A student who is required to satisfy qualifying conditions before being eligible to proceed to the EngD degree may, at the discretion of the university, be permitted to register before these conditions are satisfied.
9. Except with the special permission of the university a candidate who fails to pass any qualifying examination prescribed will not be permitted to re-enter for the qualifying examination; if re-entry to the qualifying examination is permitted, a candidate will be limited to one re-entry.

## Curriculum

10. The programme of study for the EngD degree in the field of Quantitative Non-Destructive Evaluation (QNDE) shall largely be based in industry and includes formally taught elements which provide academic underpinning for the research undertaken.
11. The duration of the programme of study is four calendar years.
12. Candidates are required to complete QNDE and related technical course modules, and two courses chosen from the optional courses.
13. Candidates are required to take a prescribed number of professional development skills courses before the submission of the thesis.
14. Candidates are required to undertake, under the supervision of an academic and an industrial supervisor, substantial research work on which they will be assessed by a report at the end of one year and by a thesis at the end of four years, i.e. at the end of the programme.
15. The industrial setting of the research means that the candidates may work on a series of linked projects; however, taken as whole the projects must demonstrate that the candidate has made a contribution to knowledge.
16. The candidate shall provide to the supervisors progress reports every six months. These may comprise part of the final assessment (see [Thesis](#)).

## Assessment

### Formally taught elements

17. The formal taught part of the EngD programme, the Imperial College Professional Skills Development programme and the EngD research project together provide
  - a. the underlying fundamental skills for research studies in quantitative non-destructive evaluation;
  - b. the methodology for the translation of such skills into real engineering outcomes;
  - c. skills underlying the management and delivery of a research programme; *and*
  - d. evidence of original research via a thesis.

18. Most of the taught programme is expected to be completed in the first two years of study and assessments shall be by written examination or coursework, as prescribed for each individual module.
19. All assessments will be evaluated by a Board of Examiners which shall include examiners external to the university. A candidate failing any assessment (whether by examination or by coursework) will be permitted to re-enter the assessment for the module in question on one occasion only.
20. The award of the EngD will be in part dependent upon the candidate having passed all the compulsory modules and the requisite number of optional modules.

## Report

21. A report not exceeding 10,000 words shall be submitted for examination at the end of the first year of the programme. The report will reflect on progress to date and define the end goals and time scales of the four-year EngD degree.
22. The candidate will be orally examined on the report by a team consisting of an internal examiner and an academic examiner external to the university; the academic supervisor and the industrial supervisor may attend as observers.
23. The purpose of the examination is to confirm that the candidate
  - a. understands the problem;
  - b. is aware of the associated literature;
  - c. has demonstrated capability to conduct the research;
  - d. has a realistic research plan and schedule;
  - e. is of EngD calibre; *and*
  - f. has benefited from the taught programme and is able to apply the knowledge acquired from the taught material.
24. The examiners will assess the progress towards the EngD degree and may recommend continuation, remedial action, which if satisfactorily achieved shall lead to continuation, or withdrawal.
25. Where a candidate chooses or is requested to withdraw from the EngD programme, that candidate may be eligible for the award of the MPhil in Quantitative Non-Destructive Evaluation providing all the requirements for that degree have been successfully achieved.

## Thesis

26. The final assessment of a candidate's research shall be by thesis. The six-monthly progress reports will also be available to the examiners on request. As well as describing the research carried out, the thesis must put the work in context, highlighting the original contribution made, shown by the discovery of new facts and/or exercise of independent critical power.

27. Assessment of the thesis shall be by viva voce given by one internal examiner and two examiners external to the university: one of the latter shall be an industrialist. Arrangements and criteria for these appointments will follow those of the PhD degree. 'External' in the case of the industrial examiner will mean from a different organisation or substantively different part of an organisation, such that they are able to exercise their judgement of the work without being swayed by other constraints.
28. Arrangements for the conduct of the examination will be those for the PhD examination.
29. Requirements for the award of the EngD will be those applying to the PhD, augmented by the requirement that the candidate demonstrates a clear appreciation of the industrial context and significance of their research.
30. Recommendations available to the examiners will be the same as those available to PhD examiners (with EngD replacing PhD) including the option of the MPhil in cases where the standards required for EngD have not been achieved.

### Dates of Assessment and Final Examination

31. Modules for the taught part of the programme will be assessed by the methods and at the dates indicated for the module in question.
32. Submission of the report shall be by the end of the first year of the programme.
33. Submission of the thesis shall be by the end of the final year of the programme or normally within a calendar year of the date of completion of the programme of study.

### Diploma of the Imperial College

34. The Diploma of the Imperial College shall be awarded to candidates who successfully achieve either the EngD degree or the MPhil degree in Quantitative Non-Destructive Evaluation.

### Document Control

<b>Document title:</b>	Regulations for the award of the Doctor in Engineering (EngD) in Quantitative Non-Destructive Evaluation 2024/2025		
<b>Version:</b>	N/A	<b>Date:</b>	N/A
<b>Location:</b>	R:\7.Quality Assurance\2. Regulations\01. Academic Regulations\Academic Regulations 2024-25\Research Degrees		
<b>Initially approved by and date:</b>	Senate October 2007		
<b>Version approved by and date:</b>	Senate June 2024		
<b>Version effective from:</b>	October 2024		
<b>Originator:</b>	Academic Registrar		
<b>Contact for queries:</b>	Assistant Registrar (Academic Standards)		
<b>Cross References:</b>	MPhil/PhD Regs		
<b>Notes and latest changes:</b>	Updated July 2024 to meet new brand standard		