

Project Element

You must take the individual project

Code	Title	Compulsory	ECTS	Weight %	Pass-mark	Assessments		
BIOE70025	MSc Engineering in Medicine Individual Project	Compulsory	40	44.44	50%	Written report	10%	Planning report
						Written report	80%	Final report
						Presentation	10%	Project presentation

Core Element

You must take all three modules in the core element

Code	Title	Compulsory	ECTS	Weight %	Pass-mark	Assessments		
BIOE70055	Fundamentals of Biomedical Engineering	Compulsory	10	11.11	50%	Written exam	60%	Main exam
						Progress test	20%	Progress test
						Progress test	20%	Progress test
BIOE70074	MSc Journal Club (PG)	Compulsory	5	5.56	50%	Presentation	100%	Presentation
BIOE70037	Computational and Statistical Methods for Research	Compulsory	5	5.56	50%	Quiz	35%	Statistical methods and theory
						Progress test	15%	Programming basics
						Lab report	50%	Jupyter Notebook report

You must take six modules from the specialist element. You must take one from Table A

Specialist Element Table A

Code	Title	Compulsory	ECTS	Weight %	Pass-mark	Assessments		
BIOE70028	Medical Device Certification (PG)	Elective	5	5.56	50%	Written report	15%	Risk Management section
						Written report	15%	System Specification
						Written report	70%	Technical file
BIOE70014	Medical Device Entrepreneurship	Elective	5	5.56	50%	Written report	100%	Module report

You must take six modules from the specialist element. Up to two can be from table B, and the rest from table C.

Specialist Element Table B

Code	Title	Compulsory	ECTS	Weight %	Pass-mark	Assessments		
BIOE70033	Biomaterials for Bioengineers	Elective	5	5.56	50%	Written exam	100%	Main exam
BIOE70010	Principles of Biomedical Imaging (PG)	Elective	5	5.56	50%	Written exam	100%	Main exam
BIOE70012	Biomimetics (PG)	Elective	5	5.56	50%	Presentation	20%	Journal club
						Poster	80%	Group poster & proposal
BIOE70056	Biomaterials for Biomedicine and Sustainability	Elective	5	5.56	50%	Written exam	60%	Main exam
						Presentation	40%	Presentation
BIOE70008	Advanced Physiological Monitoring and Data Analysis (PG)	Elective	5	5.56	50%	Written exam	100%	Main exam

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You must take six modules from the specialist element. Up to two can be from table B, and the rest from table C.

Specialist Element Table C

Code	Title	Compulsory	ECTS	Weight %	Pass-mark	Assessments		
BIOE70019	Orthopaedic Biomechanics (PG)	Elective	5	5.56	50%	Written exam	76%	Final exam
						Problem sheet	8%	Problem sheet 1
						Problem sheet	8%	Problem sheet 2
						Problem sheet	8%	Problem sheet 3
BIOE70075	Engineering in Cancer Therapy	Elective	5	5.56	50%	Written exam	80%	Main exam
						Written report	20%	Report
BIOE70032	Tissue Engineering and Regenerative Medicine (PG)	Elective	5	5.56	50%	Written exam	60%	Main exam
						Poster	40%	Poster coursework
BIOE70049	Bioengineering Approaches to Cancer (PG)	Elective	5	5.56	50%	Written exam	70%	Main exam
						Presentation	30%	Cancer research & oncology seminars
BIOE70022	Industrial Applications of Cellular Engineering	Elective	5	5.56	50%	Written exam	50%	Main exam - Level 7
						Written report	50%	Written report - level

Explanation of table

For each module:-

- 'ECTS' is an indication of how much time should be spent on the module in total, where 1 ECTS credit is 25-30 hours. This includes all teaching, private study, revision and assessment. 90 ECTS are required to pass the year.
- 'Weight' A module's weighting – ie the contribution to the overall year mark
- 'Compulsory' indicates if the module must be taken.
- Module 'pass-mark' indicates what mark must be achieved in the module to pass it, taking all assessments in that module into account. This is normally 50%.
- 'Assessments' indicate the type of each assessment within the module, the weighting of each assessment within the module, and the name of the assessment.

GUIDANCE NOTES

Rules for passing

- MSc students on the Biomaterials stream must take the compulsory project, all modules in the core element, all compulsory modules in the specialist element, and one optional module from the specialist element.
- In order to pass the MSc, a student must:
 - Achieve an aggregate mark of at least 50% overall
 - Achieve an aggregate mark of at least 50% in the project
 - Pass each taught module at 50%

What if I fail modules?

- A project mark below 50% means failing the degree
- At the discretion of the Exam Board, up to 15 ECTS worth of modules having marks below 50% but at least 40% may be compensated (considered a pass) as long as the aggregate degree mark is 50% or greater.

Award of Merit and Distinction

- Students who obtain an aggregate mark of at least 60% overall, and a project mark of at least 60% may be awarded the MSc degree with Merit, unless they are entitled to be awarded a Distinction.
- Students who obtain an aggregate mark of at least 70% overall, and a project mark of at least 70% may be awarded the MSc degree with Distinction,

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Failure of the degree

- If a student fails their first attempt at the year, the Exam Board will normally allow them to be re-assessed one more time in one or more items of assessment of any failed modules. At its discretion, the Exam Board may, however, decide that they should instead return to retake the entire module again in attendance, including learning, or to re-take the entire year again.
- Any module that has been passed at re-assessment will be capped at the pass-mark for that module.
- Students failing the year after any re-assessments are required to withdraw from the programme.
- If a student is judged by the Examiners not to be engaged with the course and/or not working hard enough, the Examiners have the option of requiring the student to withdraw from the programme
- Students failing at first or second attempt who have passed at least 60 ECTS may be offered a Diploma of Higher Education.
- Students failing at first or second attempt who have passed at least 30 ECTS may be offered a Certificate of Higher Education.

Passed modules with mitigating circumstances

If a student passes a module, but with mitigating circumstances acceptable to the Board of Examiners, then it is ultimately the decision of the Board of Examiners to consider the appropriate 'mitigation' to be offered. Normally, in accordance with 10.26 of the Regulations of Taught Programmes of Study, extended consideration will be given at grade boundaries.

Missed or failed exams due to mitigating circumstances

If a student misses or fails any exams through illness or other reason with mitigating circumstances acceptable to the Board of Examiners then it is ultimately the decision of the Board of Examiners to consider the appropriate 'mitigation' to be offered. The Board would make this decision providing the student has an accepted claim for mitigation, and the outcome would be subject to the regulations and any programmes specific requirements.

Possible mitigations could include, but are not limited to:-

- a further opportunity to attempt the assessment(s) at the next available assessment point. If relating to a first attempt at the assessment this will receive an uncapped mark.
- to be offered an opportunity to retake the year as a first attempt