# The University of Bath

We hereby certify that

**ALESSANDRO RANERI**

has been awarded the degree of

**BACHELOR OF ENGINEERING**
**IN CHEMICAL ENGINEERING**

with second-class honours first division

I. H. White

Vice-Chancellor

Rachel Sheen

Director of Academic Registry

Tim Ibell

Dean of Faculty of
Engineering & Design

By authority of the Senate

6 July 2022

**For academic year 2021/2022**

# University of Bath award titles and levels of credit within the Framework for Higher Education Qualifications (FHEQ)

| Type of Award | FHEQ Level | T / R* | Award as shown on certificate | Abbr. | Notional Hours | Min Duration | Total ECTS Credits | Minimum levels of credit | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 4 | 5 | 6 | 7 | 8 |
| Doctorate | 8 | R | Doctor of Letters<br>Doctor of Medicine<br>Doctor of Philosophy<br>Doctor of Science | DLitt<br>MD<br>PhD<br>DSc | | 24 mths | | | | | | |
| MS | 8 | R | Master of Surgery | MS | | | | | | | | |
| Professional Doctorate | 8 | R | Doctor of Business Administration<br>Doctor of Clinical Psychology<br>Doctor of Education<br>Doctor of Engineering<br>Doctor of Health<br>Doctor of Policy Research and Practice | DBA<br>DClinPsy<br>EdD<br>EngD<br>DHealth<br>DPRP | 4500 | 24 mths | **270** | | | | 52 | 216 |
| MPhil | 7 | R | Master of Philosophy | MPhil | | 12 mths | | | | | | |
| Taught Masters Degree | 7 | T | Master of Arts<br>Master of Business Administration<br>Master of Education<br>Master of Research<br>Master of Science | MA<br>MBA<br>MEd<br>MRes<br>MSc | 1500 | 12 mths | **90** | | | | 75 | |
| Postgraduate Diploma | 7 | T | Postgraduate Diploma | PGDip | 1000 | 2 sems | **60** | | | | 48 | |
| Postgraduate Certificate | 7 | T | Postgraduate Certificate in Education | PGCE | 1000 | 2 sems | **60** | | | 36 | 24 | |
| Postgraduate Certificate | 7 | T | Postgraduate Certificate | PGCert | 500 | 1 sem | **30** | | | | 24 | |
| Undergraduate Masters Degree | 7 | T | Master of Architecture | MArch | 2000 | 2 years | **120** | | | | 120 | |
| Undergraduate Masters Degree | 7 | T | Master in Science<br>Master of Biochemistry<br>Master of Biology<br>Master of Biomedical Sciences<br>Master of Chemistry<br>Master of Computing<br>Master of Engineering<br>Master of Mathematics<br>Master of Pharmacology<br>Master of Pharmacy<br>Master of Physics | MSci<br>MBiochem<br>MBiol<br>MBiomed<br>MChem<br>MComp<br>MEng<br>MMath<br>MPharmacol<br>MPharm<br>MPhys | 4000 | 4 years | **240** | 60 | 48 | 48 | 60 | |
| Bachelors Degree with Honours | 6 | T | Bachelor of Arts<br>Bachelor of Engineering<br>Bachelor of Science | BA(Hons)<br>BEng(Hons)<br>BSc(Hons) | 3000 | 3 years | **180** | 60 | 48 | 48 | | |
| Graduate Diploma | 6 | T | Graduate Diploma | | 1000 | 2 sems | **60** | | | 48 | | |
| Graduate Certificate | 6 | T | Professional Graduate Certificate in Education | PGCE | 1000 | 2 sems | **60** | | | 60 | | |
| Graduate Certificate | 6 | T | Graduate Certificate | | 500 | 1 sem | **30** | | | 24 | | |
| Bachelors Degree without honours (Ordinary) | 6 | T | Bachelor of Engineering<br>Bachelor of Science | BEng<br>BSc | 3000 | 3 years | **150** | 60 | 48 | 30 | | |
| Foundation Degree | 5 | T | Foundation Degree in Arts<br>Foundation Degree in Science | FdA<br>FdSc | 2000 | 2 years | **120** | 60 | 60 | | | |
| Diploma of Higher Education | 5 | T | Diploma of Higher Education | DipHE | 2000 | 2 years | **120** | 60 | 48 | | | |
| Higher National Diploma | 5 | T | Higher National Diploma | HND | 2000 | 2 years | | | | | | |
| Higher National Certificate | 5 | T | Higher National Certificate | HNC | 2000 | 2 years | | | | | | |
| Certificate of Higher Education | 4 | T | Certificate of Higher Education | CertHE | 1000 | 2 sems | **60** | 60 | | | | |
| University Certificate | 4 | T | University Certificate | | 500 | 1 sem | **30** | 30 | | | | |
| Open Studies Certificate | 4 | T | Open Studies Certificate | | 250 | 1 sem | **15** | 15 | | | | |

* T/R - Predominantly Taught or Research

To employers and third parties: to verify the authenticity of this document you are advised to contact the University of Bath. Further information is provided on the University website at https://www.bath.ac.uk/guides/verify-an-award/

UNIVERSITY OF BATH

# Transcript

To verify the authenticity of the information in this document you are advised to contact the University of Bath. Further information on verification is provided on the University website at https://www.bath.ac.uk/guides/verify-an-award/. Further information on academic decision-making is provided on the University website at https://www.bath.ac.uk/guides/academic-decision-making-for-taught-degrees/.

Note: units marked as AUDIT do not count towards the Final Award and any marked as EXTRA only count towards Undergraduate Diploma and Certificate awards.

| | | | |
|---|---|---|---|
| Student Name: | **ALESSANDRO RANERI** | | |
| Department: | **Chemical Engineering** | | |
| Programme Title: | **BEng(Hons) Chemical Engineering** | | |
| Lang of Instruction: | **English** | Registration Number: | **199134131** |
| Start Date: | **30 September 2019** | HESA Number: | **1911090021370** |
| Award Name: | **Bachelor of Engineering in Chemical Engineering** | | |
| Date of Award: | **06 July 2022** | Degree Class Awarded: | **Second-class honours first division** |

| **Final Stage Averages:** | | |
|---|---|---|
| **Part/Stage** | **Average** | **% Contribution** |
| Part 1 Stage 1 | 62.45 | 0% |
| Part 2 Stage 2 | 71.18 | 32.00% |
| Part 3 Stage 3 | 68.75 | 68.00% |
| **Overall Programme Average:** | **69.53** | |

**Year 1 Results (2019/0)**

**Part 1 Stage 1**

| Unit Code | Unit Title | Credits Awarded | Attempt | Mark (%) | Outcome |
|---|---|---|---|---|---|
| **CE10232** | Science and mathematics for chemical engineering | 10 | 1 | 60 | Pass |
| **CE10233** | Principles of chemical engineering 1 | 30 | 1 | 62 | Pass |
| **CE10234** | Chemical engineering skills, practice and design 1 | 15 | 1 | 65 | Pass |
| **CE10235** | Professional portfolio 1 | 5 | 1 | | Pass |

**EXTRA Units**

| Unit Code | Unit Title | Credits Awarded | Attempt | Mark (%) | Outcome |
|---|---|---|---|---|---|
| *CE00000* | *EXTRA UNIT - Academic integrity training & test* | *0* | 1 | | Pass |

**Year 2 Results (2020/1)**

**Part 2 Stage 2**

| Unit Code | Unit Title | Credits Awarded | Attempt | Mark (%) | Outcome |
|---|---|---|---|---|---|
| **CE20236** | Process dynamics, modelling and control | 10 | 1 | 69 | Pass |

UNIVERSITY OF BATH

# Transcript

To verify the authenticity of the information in this document you are advised to contact the University of Bath. Further information on verification is provided on the University website at https://www.bath.ac.uk/guides/verify-an-award/. Further information on academic decision-making is provided on the University website at https://www.bath.ac.uk/guides/academic-decision-making-for-taught-degrees/.

Note: units marked as AUDIT do not count towards the Final Award and any marked as EXTRA only count towards Undergraduate Diploma and Certificate awards.



Student Name: **ALESSANDRO RANERI**

**Year 2 Results (2020/1)**

| Unit Code | Unit Title | Credits Awarded | Attempt | Mark (%) | Outcome |
|---|---|---|---|---|---|
| **CE20237** | Principles of chemical engineering 2 | 30 | 1 | 72 | Pass |
| **CE20238** | Chemical engineering skills, practice and design 2 | 15 | 1 | 71 | Pass |
| **CE20239** | Professional portfolio 2 | 5 | 1 | | Pass |

**Year 3 Results (2021/2)**

**Part 3 Stage 3**

| Unit Code | Unit Title | Credits Awarded | Attempt | Mark (%) | Outcome |
|---|---|---|---|---|---|
| **CE30240** | Advanced principles of chemical engineering | 15 | 1 | 68 | Pass |
| **CE30241** | Environmental and engineering project management | 15 | 1 | 69 | Pass |
| **CE30242** | Product and process design (group) | 15 | 1 | 69 | Pass |
| **CE30243** | Product and process design (individual) | 15 | 1 | 69 | Pass |

Credits awarded are the equivalent of ECTS credits (European Credit Transfer Accumulation System). 6 ECTS credits are equivalent to 120 study hours.

**Issued By:** Rachel Sheer, Director of Academic Registry **Date:** 05 July 2022

**Signature:** Rachel Sheer