Imperial College London

Programme Information		
Programme Title	Programme Code	HECoS Code
Business Analytics	N290T	For Registry Use Only

Award	Length of Study	Mode of Study	Entry Point(s)	Total Credits	
				ECTS	CATS
MSc	12 months	Full-time	Annually in September	90	180

Ownership			
Awarding Institution	Imperial College London	Faculty	Imperial College Business School
Teaching Institution	Imperial College London	Department	Imperial College Business School
Associateship	N/A	Main Location(s) of Study	South Kensington Campus
External Reference			
Relevant QAA Benchmark Statement(s) and/or other external reference points		Master's Awards in Business and Management	
FHEQ Level		Level 7 – Master's	
EHEA Level		2nd Cycle	
External Accreditor(s) (if applicable)			
External Accreditor 1:	AMBA		
Accreditation received:	1987	Accreditation renewal:	2023
External Accreditor 2:	EQUIS		
Accreditation received:	2006	Accreditation renewal:	2024
External Accreditor 3:	AACSB International		
Accreditation received:	2012	Accreditation renewal:	2023
Collaborative Provision			
Collaborative partner	Collaboration type	Agreement effective date	Agreement expiry date
N/A	N/A	N/A	N/A

Specification Details

Specification Details	
Programme Lead	Professor Wolfram Wiesemann
Student cohorts covered by specification	2021-22 entry
Date of introduction of programme	October 15
Date of programme specification/revision	September 21

Programme Overview

The MSc in Business Analytics is offered over 12 months full-time starting in September. The programme goal is to enable graduates to understand the challenge of managing large data sets, analyse them to gain insights for a firm, and to provide them with a skill set to meet this challenge. The programme combines academic rigour and practical relevance. There is a careful balance of teaching and learning, individual and group work. Case study methodology and class-based discussions are used to strengthen the conceptual, analytical and problem-solving skills of the participants in real situations. In addition, there are regular seminars by external expert speakers. The programme prepares graduates for a future of data driven and evidence-based decision making. You will learn how to apply the latest academic thinking and analytical and computing tools to help make business decisions, from leading practitioners and world-class faculty

Although grounded in rigorous technical and quantitative training, our programme is also highly applied. Electives and projects are sector-focussed, giving you the opportunity to tailor the programme to your interests.

The programme comprises 9 compulsory modules, and a choice of 6 elective modules from a range of subject areas. These modules are taught over 12 calendar months. Over the normal summer vacation period, students will complete the Analytics in Business Capstone Project or an Individual Research Report.

Learning Outcomes

Students who complete the programme successfully will be able to:
- Create and maintain large data sets;
- Interpret, explain and evaluate large data sets in a business environment;
- Describe, assess and appraise current issues in Business Analytics;
- Develop a set of lifelong learning skills applicable to the business environment.

The Imperial Graduate Attributes are a set of core competencies which we expect students to achieve through completion of any Imperial College degree programme. The Graduate Attributes are available at:
www.imperial.ac.uk/students/academic-support/graduate-attributes

Entry Requirements

Academic Requirement	The minimum requirement is normally a 2:1 UK Bachelor's Degree with Honours or a comparable qualification recognised by the College in Business, Economics, Engineering, Computer Science, Mathematics, Statistics, Physics or a quantitative social science. The Business School does not award credit for Prior Learning (Recognition of Prior Certified Learning (RPCL) or Recognition of Prior Experiential Learning (RPEL)).
Non-academic Requirements	Two references
English Language Requirement	Higher requirement (PG) IELTS score of 7.0 overall (minimum 6.5 in all elements).
Admissions Test/Interview	Applicants are required to attend a recorded interview with both business knowledge and quantitative questions.

The programme's competency standards documents can be requested from the Business School's Education Quality Office.

Learning & Teaching Approach

Learning and Teaching Delivery Methods

The programme combines academic rigour and practical relevance. There is a careful balance of teaching and learning, individual and group work.

Independent learning
Students are expected to spend significant time on independent study outside of directed learning time on the HUB. This will typically include accessing resources online, reading journal articles and books, undertaking research in the library, reviewing lecture notes and watching lecture recordings, working on individual and group projects, working on coursework assignments and revising for exams.

Active Learning

Projects
All students are required to undertake the Analytics in Business Capstone project as the final summative piece of their degree or an Individual Research Report for those wishing to pursue further academic study.

Overall Workload
Your overall workload consists of directed online learning sessions and independent learning. While your actual contact hours may vary according to the elective modules you choose to study, the following gives an indication of how much time you will need to allocate to different activities at each level of the programme. At Imperial, each ECTS credit taken equates to an expected total study time of 25 hours. Therefore, the expected total study time is 2250 hours per year.

On average during the programme, students are expected to spend around 20% of their time on directed learning, 60% on independent study and group work, 10% on careers and personal development and 10% of their time on other activities (e.g. social, leisure clubs). There are typically 90 students on the programme and group work is normally conducted in syndicate teams 3-6 students

Assessment Strategy

Assessment Methods

Students will be assessed using a range of methods:

- Essays
- Continuous assessments
- Written Examinations/Tests
- Multiple Choice Tests
- Formal Presentations
- Video Presentations
- Reports
- Simulations
- Case Studies
- Participation

Balance of assessment

Compulsory (core) modules
Coursework –45%
Exam – 55%

Electives
Coursework – 100%

Academic Feedback Policy

The School aims to provide feedback to students on coursework within two weeks and to provide provisional examination grades six weeks from the examination date. With each returned coursework assignment, a written

evaluation will be provided. General feedback to the cohort is provided on examination performance. Students will be provided with a percentage mark. All percentage marks received during the year are deemed provisional until confirmed by the Final Examination Board, which is attended by the Programmes External Examiners.

The College's Policy on Academic Feedback and guidance on issuing provisional marks to students is available at:
www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/

Re-sit Policy
The College's Policy on Re-sits is available at: www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/
Mitigating Circumstances Policy
The College's Policy on Mitigating Circumstances is available at: www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/

Additional Programme Costs		
This section should outline any additional costs relevant to this programme which are not included in students' tuition fees.		
Description	Mandatory/Optional	Approximate cost
N/A	N/A	N/A

Important notice: The Programme Specifications are the result of a large curriculum and pedagogy reform implemented by the Department and supported by the Learning and Teaching Strategy of Imperial College London. The modules, structure and assessments presented in this Programme Specification are correct at time of publication but might change as a result of student and staff feedback and the introduction of new or innovative approaches to teaching and learning. You will be consulted and notified in a timely manner of any changes to this document.

Year 1 - FHEQ Level 7 Students study all compulsory modules. Students select Electives from Group A to the value of 15 ECTS and from Group B to the value of 15 ECTS, PLUS one Group C elective.					
Code	Module Title	Core/ Elective/ Compulsory	Group	Term	Credits
BUSI70070	Plagiarism Awareness	Compulsory		Pre-sessional	0
BUSI97588	Career & Professional Development Workshops	Compulsory		Pre-sessional	0
BUSI97370	Business and Maths Foundations for Business Analytics	Compulsory		AU	5
BUSI97286	Maths and Statistics Foundations for Analytics	Compulsory		AU	5
BUSI97284	Data Structures and Algorithms	Compulsory		AU	5
BUSI97270	Fundamentals of Database Technologies	Compulsory		AU	5
BUSI97269	Optimisation & Decision Models	Compulsory		AU	5
BUSI97268	Statistics & Econometrics	Compulsory		AU	5
BUSI70261	Machine Learning	Compulsory		SP	5
BUSI70263	Network Analytics	Compulsory		SP	5
BUSI70267	Visualisation	Compulsory		SP	5
BUSI70255	Energy Analytics	Elective	Group A	SP	5
BUSI70260	Logistics & Supply Chain Analytics	Elective	Group A	SP	5
BUSI70265	Retail & Marketing Analytics	Elective	Group A	SP	5
BUSI70250	Advanced Machine Learning	Elective	Group B	SU	5
BUSI70254	Digital Marketing Analytics	Elective	Group B	SU	5
BUSI70258	Healthcare & Medical Analytics	Elective	Group B	SU	5
BUSI70256	Financial Analytics	Elective	Group B	SU	5
BUSI70268	Workforce Analytics	Elective	Group A	SP	5
BUSI70252	Data Management & Ethics	Elective	Group B	SU	5

BUSI70251	Analytics in Business Capstone Project	Elective	Group C	SU	15
BUSI70259	Individual Research Report	Elective	Group C	SU	15
				Credit Total	90

Award and Classification for Postgraduate Students

Award of a Postgraduate Degree (including MRes)
To qualify for the award of a postgraduate degree a student must have:
1. accumulated credit to the value of no fewer than 90 credits at level 7 or above of which no more than 15 credits may be from credit level 6;
2. and no more than 15 credits as a Compensated Pass;
3. met any specific requirements for an award as outlined in the approved programme specification for that award.

Classification of Postgraduate Taught Awards

The College sets the class of Degree that may be awarded as follows:
1. Distinction: The student has achieved an overall weighted average of 70.00% or above across the programme.
2. Merit: The student has achieved an overall weighted average of above 60.00% but less than 70.00%.
3. Pass: The student has achieved an overall weighted average of 50.00% but less than 60.00%.

a. For a Masters, students must normally achieve a distinction (70.00%) mark in the dissertation or designated final major project (as designated in the programme specification) in order to be awarded a distinction.
b. For a Masters, students must normally achieve a minimum of a merit (60.00%) mark in the dissertation or designated final major project (as designated in the programme specification) in order to be awarded a merit
c. Modules taken at level 6 as part of the programme specification for a named postgraduate award will contribute to the determination of pass, merit or distinction for any taught postgraduate award and are included in the calculation of the overall weighted average.

Programme Specific Regulations

All modules are equally weighted, with the exception of the Analytics in Business Capstone Project and Individual Research Report which are doubly weighted and the Business and Maths Foundations for Business Analytics which is zero weighted

There are three module groups (Autumn, Spring, Summer):

Pass
- An aggregate mark of 50% or greater across the programme as a whole
- An average of 50% or above in each module group- Autumn, Spring, Summer
- At least 40% in each examination
- At least 50% in all modules assessed by coursework only*
- A pass in Accounting, Maths and Finance Primers for Business Analytics

Merit
- An aggregate mark of 60% or greater across the programme as a whole
- An average of 60% or above in each module group- Autumn, Spring, Summer At least 40% in each examination
- At least 50% in all modules assessed by coursework only*
- A pass in Accounting, Maths and Finance Primers for Business Analytics

Distinction
- An aggregate mark of 70% or greater across the programme as a whole
- An average of 70% or above in each module group- Autumn, Spring, Summer
- At least 40% in each examination
- At least 50% in all modules assessed by coursework only*
- A pass in Accounting, Maths and Finance Primers for Business Analytics

*Analytics in Business Capstone Project, Machine Learning, Visualisation, Logistics and Supply-Chain Analytics, Workforce Analytics, Advanced Machine Learning, Healthcare and Medical Analytics, Individual Research Report, Retail and Marketing Analytics, Energy Analytics, Digital Marketing Analytics, Financial Analytics, Advanced Machine Learning.

Supporting Information
The Programme Handbook is available at: TBA
The Module Handbook is available at: TBA
The College's entry requirements for postgraduate programmes can be found at: www.imperial.ac.uk/study/pg/apply/requirements
The College's Quality & Enhancement Framework is available at: www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance
The College's Academic and Examination Regulations can be found at: www.imperial.ac.uk/about/governance/academic-governance/regulations
Imperial College is an independent corporation whose legal status derives from a Royal Charter granted under Letters Patent in 1907. In 2007 a Supplemental Charter and Statutes was granted by HM Queen Elizabeth II. This Supplemental Charter, which came into force on the date of the College's Centenary, 8th July 2007, established the College as a University with the name and style of "The Imperial College of Science, Technology and Medicine". www.imperial.ac.uk/admin-services/secretariat/college-governance/charters/
Imperial College London is regulated by the Office for Students (OfS) www.officeforstudents.org.uk/advice-and-guidance/the-register/
This document provides a definitive record of the main features of the programme and the learning outcomes that a typical student may reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities provided. This programme specification is primarily intended as a reference point for prospective and current students, academic and support staff involved in delivering the programme and enabling student development and achievement, for its assessment by internal and external examiners, and in subsequent monitoring and review.

Modifications			
Description	Approved	Date	Paper Reference
N/A	N/A	N/A	N/A