

# OPEN UNIVERSITY OF MAURITIUS

## BSc (Hons) Applied Statistics

Academic year: 2022 onwards

Programme documents detail the aims, learning strategies, structure and intended learning outcomes that students should achieve if they fully engage with the learning provided within the programme. The document is intended to support and inform prospective students, current students, academic and support staff, external stakeholders and external examiners.

1. PROGRAMME INFORMATION	
<b>Title of Final Award</b>	<b>Bachelor of Science with Honours in Applied Statistics BSc (Hons) Applied Statistics</b>
<b>Code</b>	OUs030
<b>Awarding Body</b>	Open University of Mauritius
<b>Disciplinary Division</b>	Statistics and Business
<b>Programme Manager</b>	Mrs Vandana Goria
<b>Programme Duration</b>	<b>Degree Award</b> Minimum: 3 years Maximum: 6 years <b>Diploma Award</b> Minimum: 2 years Maximum: 3 years <b>Certificate Award</b> 1 year For the above award, all modules of the programme must be completed. The Certificate and Diploma are provided as possible exit points in the programme. A learner may opt for a Certificate or Diploma in Statistics provided he/she satisfies the minimum credit requirements.
<b>Total Credits</b>	180 credits
<b>Credits Per Year</b>	<i>Normally 60 credits per academic year Minimum number of credits per semester is 20. Maximum number of credits per semester is 40.</i>
<b>MQA NQF Level</b>	Level 8
<b>EHEA EQF Level</b>	Level 6
<b>External Accreditors</b>	Not applicable
<b>Collaborative Partners</b>	Not applicable
<b>Programme Approval Date</b>	Tbc
<b>Last Revision</b>	Programme developed and approved in 2017
<b>Last Update</b>	Not applicable

## 2. ENTRY REQUIREMENTS

General:	<p>A. EITHER “Credit” in at least three subjects at School Certificate or General Certificate of Education O-Level or equivalent and “Pass” in at least two subjects at Higher School Certificate or General Certificate of Education Advanced Level or equivalent; including A-level Mathematics.</p> <p>B. <b>OR</b> An appropriate equivalent Diploma or Certificate or Foundation Courses acceptable by the Open University of Mauritius.</p> <p>Learners who do not qualify under options <b>A</b> and <b>B</b> may register for Foundation Courses offered by the Open University of Mauritius. Those who complete the Foundation courses successfully will be eligible for registration for the relevant degree courses.</p> <p>Qualifications awarded by other recognised universities and institutions that have been approved by the Tertiary Education Commission or Mauritius Qualifications Authority and the Open University of Mauritius may also be considered for admission.</p> <p>Mature candidates having a strong background of work experience and uncertified learning may be assessed for entry to programmes through the Accreditation of Prior Learning (APL) and the Accreditation of Prior Experiential Learning (APEL). Applicants may be required to pass an entry test at their own cost. Please consult the General Rules and Regulations of the Open University of Mauritius for further details.</p>
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## 3. PROGRAMME OVERVIEW

Aims and Objectives of the Programme:	<p>The primary purpose of the qualification is to provide BSc (Hons) graduates with the knowledge, specific applied skills and theoretical competence in the field of Statistics. In this programme, learners are prepared in the collection, organisation, analysis, interpretation, and presentation of data. Emphasis is laid on application of suitable statistical techniques including advanced modelling to real data and big data using the latest statistical software. The areas of applications cover the economic, social, technology, business and scientific fields. After a full grounding in foundations of Statistics in the first year, a wide range of core topics in Applied Statistics is offered in the second and third years. Learners taking this degree will acquire knowledge and skills that will:</p> <ul style="list-style-type: none"><li>● Enable their transition to postgraduate studies</li></ul>
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	<ul style="list-style-type: none"> <li>• Equip them to effectively function in the workplace, as Statistician, Data Analyst and Specialist, Mathematician, Business Analyst, Financial Analyst, Consultant, Risk Analyst, Statistics Trainer, Econometrician, Biostatistician and other related jobs.</li> <li>• Prepare learners to work in various fields/job areas such as Census, Computer Science, Health Science, Education, Technology and Business.</li> </ul>
<b>Intended Learning Outcomes:</b> After completion of the programme, students will be able to:	
Knowledge and Understanding	<p>K1: Explain the fundamental theoretical and practical concepts of Statistics</p> <p>K2: Apply mathematical and statistical tools for data analysis</p> <p>K3: Apply core principles of Statistics and broaden knowledge on the use of big data and other complex data science</p> <p>K4: Explain the relationship between statistical theory, empirical data and their application in a variety of global contexts</p> <p>K5: Undertake independent enquiry effectively, applying qualitative and quantitative data, and the appropriate methods for structuring and analysing such data</p> <p>K6: Gain an advanced ability to use and interpret large data sets</p> <p>K7: Gain an overview of Artificial Intelligence and Block Chain Technology and how it can be used to build smart apps that help organisations be more secure, efficient, reduce cost and finally enrich people’s lives.</p>
Cognitive Skills	<p>C1: Analyse, and apply analytical data models, including solving problems</p> <p>C2: Interpret, evaluate, and critically analyse arguments, theories and practical approaches</p> <p>C3: Synthesise and interpret data</p> <p>C4: Construct an argument in both written and quantitative form</p> <p>C5: Manipulate and apply mathematical/statistical models.</p>
Practical/ Professional Skills	<p>P1: Independently locate and assess relevant theoretical concepts/information/data, and to draw on these to develop understanding and to construct viable argument</p> <p>P2: Present quantitative and qualitative information, together with analysis, argument and commentary, appropriately to a specified audience</p> <p>P3: Collect relevant information from a diversity of sources and correctly cite, acknowledge and reference sources</p> <p>P4: Use intellectual reasoning to deal with large data sets with new method of distributed processing.</p>
Transferable Skills	<p>T1: Effectively communicate ideas and arguments in writing and orally</p> <p>T2: Collaborate with others and contribute effectively to the achievement of common goals</p> <p>T3: Work independently, demonstrating initiative and self-management.</p>

<b>4. PROFESSIONAL, STATUTORY AND REGULATORY BODIES (where applicable)</b>
Not applicable

## 5. LEARNING AND TEACHING STRATEGY

The programme is run on a blended-learning mode combining face-to-face learning interactions with e-learning. Using practical and hands-on approaches to learning, participants will be given the opportunity to develop knowledge in Statistics and practice related tools through learning activities geared towards developing analytical and critical thinking skills on how to manipulate data, reasoning, an analyst mindset and the ability to challenge the complexity of statistical tools.

### **Learning and Teaching Methods:**

Learners will be provided with opportunities to engage in a diverse range of learning environments so as to maximise their learning. For this programme, students will interact with their tutor and their fellow students mostly through the e-platform.

The e-platform will use the following tools:

- Online activities: for every unit covered in each module, learners will be given opportunities to complete interactive learning activities including discussion forums, MCQ questions, quizzes, field trips, webinars and problem-solving activities. Learners will be encouraged to work independently but also to engage in collaborative work.
- Independent study: Independent study forms an essential part in the development of your knowledge and understanding. We will guide you, via the e-platform, on the reading and reflection of primary and secondary texts. Learners should use this independent study time to link knowledge with e-class and face-to-face activities and develop their own understanding and critical perspective on the topics they are studying.

### **Strong experimental/practical elements that learners need to grasp.**

We also offer optional face-to-face sessions.

The face-to-face sessions are an opportunity to untangle complex concepts and provide students with an opportunity to apply the knowledge acquired in the preceding weeks. During the face-to-face session, learners can be expected to:

- Engage in statistical problem-solving activities
- Engage with reading material to engage in class discussions
- Review core/complex concepts through applied work.

### **Research Supervision:**

In the final part, students will undertake a dissertation, supervised by one of our tutors with expertise in the area of the dissertation topic. Students will have the opportunity to meet with the supervisor to explore the topic, receive guidance on the research and receive feedback on the work as it progresses.

**Overall Workload:**

Your overall workload as a student consists of independent learning, e-learning activities and, if you choose to, face-to-face sessions. The following gives you an indication of how much time you will need to spend on the different components of your programme at each level. Each ECTS credit taken equates to 25 hours of study time.

The expected study time for this programme will be as follows:

Year 1: 1,500 hours for 60 ECTS credits.

Year 2: 1,500 hours for 60 ECTS credits.

Year 3: 1,500 hours for 60 ECTS credits.

Typically, for each year of your degree you will spend 0-10% of your time in face-to-face sessions, 5-15% of your time engaging with e-learning activities and 60% of your time in independent study time.

A typical study week for a student will involve some optional face-to-face sessions, required engagement in online discussion forum, the completion of online activities and independent study time to review attached readings, textbooks and relevant sections of the module document. Students should expect to devote 8 to 12 hours of study time per week per module.

These are indicative and may vary from learner to learner.

**6. ASSESSMENT STRATEGY****Assessment Methods**

A range of formative and summative assessment exercises are designed to enable you to demonstrate and apply your knowledge and understanding.

Most modules will consist of a Tutor Marked Assessment component and an examination. TMAs include:

- Tests
- Essays
- Written projects
- Practical projects
- Exercises and problem set
- Webinars
- Team projects

In addition to TMAs, this programme includes a final examination for all modules except the Final year dissertation module.

Assessment mapping: See Appendix

**Academic Feedback**

Throughout the course of your studies, tutors will provide informal feedback on your online activities and class contributions. Feedback may be individual or provided to the class as a whole.

Each summative assessment will be accompanied by detailed marking criteria and marking scheme detailing the expectation of the assessment at each grade classification level. Feedback on assessment will be provided along the marking criteria. Marking criteria will be made available to the learner at the same time as the assessment details.

Learners will receive written individual feedback on all TMA components.

The University Policy on Assessment Feedback and Guidance on Provisional Marks can be found in the General Rules and Regulations.

**Late Submission, Extension and Re-sit Policy**

The University Policy on Late Submission, Extension and Re-sits can be found in the General Rules and Regulations.

**Special Circumstances**

The University Policy on Special Circumstances can be found in the General Rules and Regulations.

**Continuous Assessment and Exam Regulations**

The University Regulations on Continuous Assessment and Examination can be found in the General Rules and Regulations.

**7. ACADEMIC MISCONDUCT**

As a safeguard to the quality and standard of Open University's qualifications and awards, the University takes any incidence of academic misconduct seriously and will investigate any reported case.

Academic Misconduct refers to any activity where a student, through unpermitted means, seeks to gain an advantage in the completion of an assessment. Any unpermitted action will be considered as academic misconduct when occurring during a formal examination, a TMA, or any other form of assessment considered by the Board of Examiners and undertaken in pursuit of a University qualification or award.

**Plagiarism** (using, intentionally or unintentionally another person's work and presenting it as one's own) will be systematically checked through an automated text-matching detection software that supports the detection of plagiarism: Turnitin.

**For a list of all academic misconduct see [section 23.3](#) of the University Regulations.**

**Any suspected cases of academic misconduct will be reported and investigated. Academic misconduct offences may lead to suspension or expulsion from the University.**

The University Regulations on Academic Misconduct can be found in the General Rules and Regulations.

## 8. PROGRAMME STRUCTURE

C= Core i.e. modules which must be taken to be eligible for the award

S1 = Semester 1

S2 = Semester 2

### Year 1 – Level 6 (NQ-MQA) – Short Cycle Introductory (QF-EHEA)

Code	Module Title	Type	Semester	Credits
OUBs030111	Essentials of Statistics	C	S1	6
OUBs030112	Probability and Probability Distributions I	C	S1	7
OUBs030113	Survey and Sampling Techniques	C	S1	7
OUBs030212	Management Principles	C	S1	6
OUBs030121	Probability and Probability Distributions II	C	S2	10
OUBs030122	Linear Models and Design of Experiments	C	S2	10
OUBs030123	Time Series Analysis	C	S2	7
OUBs030124	Parametric and Non-Parametric Methods	C	S2	7
<b>Credit Total</b>				<b>60</b>

### Year 2 – Level 7 (NQ-MQA) – Short Cycle Intermediate (QF-EHEA)

Code	Module Title	Type	Semester	Credits
OUBs030223	Econometrics	C	S1	6
OUBs030114	Real Analysis	C	S1	7
OUBs030213	Biostatistics	C	S1	7
OUBs030214	Statistical Inference I	C	S1	7
OUBs030221	Statistical Inference II	C	S2	10
OUBs030222	Research Methods	C	S2	6
OUBs030211	Data Analysis in Practice	C	S2	10
OUBs030224	Stochastic Processes	C	S2	7
<b>Credit Total</b>				<b>60</b>

### Year 3 – Level 8 (NQ-MQA) – 1<sup>st</sup> Cycle Honours (QF-EHEA)

All core modules must be taken.

Code	Module Title	Type	Semester	Credits
OUBs030324	Dissertation	C	S1 & S2	15
OUBs030311	Big Data Analytics	C	S1	7
OUBs030312	Artificial Intelligence	C	S1	6
OUBs030313	Statistical Quality Processes	C	S1	5
OUBs030314	Operational Research	C	S2	5
OUBs030321	Data Science for Business	C	S2	7
OUBs030322	Multivariate Analysis	C	S2	7
OUBs030323	Advanced Statistical Modelling	C	S2	8

<b>Credit Total</b>	<b>60</b>
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<b>Overall Programme Credit Total</b>	<b>180</b>
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## 9. GRADING

### Grading System:

Assessments are graded in percentage and correspond to a letter grade and a grade point.

Marks (x) %	Description	Letter Grade	Grade Point
$X \geq 70$	Excellent	A	5
$60 \leq X < 70$	Very Good	B	4
$50 \leq X < 60$	Good	C	3
$40 \leq X < 50$	Satisfactory	D	2
$X < 40$	Ungraded	U	0
Non-graded/pending	See section 17.1.1 in Assessment Rules and Regulations for pending grades letter codes		

To pass a module, students need an overall of 40% weighted average of their combined continuous assessment and examination. All components of TMAs will have to have been submitted and examination sat to pass the module.

Students will normally not be allowed to postpone more than two modules for the following semester.

If a student obtains grade "U" in three or more modules in the same semester, and the CPA is below 40 for that semester, the student will be requested to repeat the semester unless decided otherwise by the Academic Council upon the recommendation of the Board of Examiners. When repeating a semester, a student may or may not take the modules for which Grade C or above has been obtained.

If after completing a level, the student's CPA < 40, the student will have to repeat the entire academic year, and retake the modules as and when offered. However, s/he will not be required, if s/he wishes, to retake 3 module(s) for which Grade C or above has been obtained.

Students will not be allowed to repeat more than two semesters during the entire duration of the programme.

University general marking criteria for undergraduate exams and undergraduate dissertations can be found in the General Rules and Regulations.

### Cumulative Point Average (CPA):

Total CPA for Undergraduate degrees is calculated by:

- a) Multiplying the module credit by the % marks for the module and then summed up and divided



by the total credits attempted over the cumulative period at each level (1 semester or 1 year).  
AND

- b) Taking the weighted average of the obtained CPAs at each level. The respective weights being set as follows: the CPA of level 5 modules (year 1) will be weighted at 15% (0.15), the CPA of level 6 modules (year 2) will be weighted at 35% (0.35) and the CPA of levels 7/8 modules (year 3 and/or 4) will be weighted at 50% (0.5).

Example calculation of the CPA at level 5 for undergraduate programmes:

Course Level 5	% Scores	ECTS Credit Unit	Module Credit x % Score
BAXX1	64	7.5	64*7.5 = 480
BAXX2	71	7.5	71*7.5 = 533
BAXX3	44	7.5	44*7.5= 330
BAXX4	59	7.5	59* 7.5= 443
BAXX5	82	5.0	82*5 = 410
BAXX6	62	5.0	62*5 = 310
BAXX7	65	5.0	65*5 = 325
BAXX8	54	15.0	54*15 = 810
Total		60	3640
<b>CPA = 3640/60</b>			<b>61.7</b>

Example Calculation Total CPA:

Level	Score	Weighted score
CPA level 5 (60 credits)	61.7	61.7 * <b>0.15</b> = 9.11
CPA level 6 (60 credits)	63.4	63.4* <b>0.35</b> = 22.19
CPA level 7/8 (60 credits)	65.5	65.5* <b>0.5</b> = 32.75
<b>Total CPA (180 credits)</b>		<b>64</b>

## 10. PROGRESSION, EXIT POINTS AND AWARD

Progression	<p>If a student fails to achieve 60 credits at the end of a year level, the Board of Examiners will make a decision with regard to the student's progression. At its discretion, the Board of Examiners may:</p> <ul style="list-style-type: none"> <li>- Allow a student to carry forward up to 15 credits in the following year level in order to retake these units in attendance</li> <li>- Require the student to repeat the year</li> </ul>
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	<ul style="list-style-type: none"> <li>- Award an exit award once you've exhausted all the opportunities to retrieve failed assessment.</li> </ul>																									
Classification of Awards	<p>For the award of the Honours degree, all modules of the programme must be completed.</p> <p>The Certificate of Higher Education and the Diploma of Higher Education are awarded as possible exit points in the programme as indicated in the table below:</p> <table border="1"> <thead> <tr> <th>Award</th> <th>Title</th> <th>Level NQ-MQA</th> <th>Total Required Credits</th> <th>Classification Based on Cumulative Point Average (CPA)</th> </tr> </thead> <tbody> <tr> <td>BSc (Hons)</td> <td>Applied Statistics</td> <td>8</td> <td>180</td> <td> <b>1<sup>st</sup> Class Honours (First):</b>            CPA <math>\geq</math> 70  <b>2<sup>nd</sup> Class 1<sup>st</sup> Division Honours (2:1):</b>            60 <math>\leq</math> CPA <math>\leq</math> 69  <b>2<sup>nd</sup> Class 2<sup>nd</sup> Division Honours (2:2):</b>            50 <math>\leq</math> CPA <math>\leq</math> 59         </td> </tr> <tr> <td>Ordinary BSc</td> <td>Applied Statistics</td> <td>7</td> <td>180</td> <td> <b>3<sup>rd</sup> Class:</b> 45 <math>\leq</math> CPA <math>\leq</math> 49  <b>Pass:</b> 40 <math>\leq</math> CPA <math>\leq</math> 44         </td> </tr> <tr> <td>Diploma of Higher Education (DipHE)</td> <td>Applied Statistics</td> <td>6-7</td> <td>120</td> <td> <b>Distinction:</b> CPA <math>\geq</math> 70  <b>Pass:</b> 40 <math>\leq</math> CPA <math>\leq</math> 69  <b>No Award:</b> CPA &lt; 40         </td> </tr> <tr> <td>Certificate of Higher Education (CertHe)</td> <td>Applied Statistics</td> <td>6</td> <td>60</td> <td> <b>Distinction:</b> CPA <math>\geq</math> 70  <b>Pass:</b> 40 <math>\leq</math> CPA <math>\leq</math> 69  <b>No Award:</b> CPA &lt; 40         </td> </tr> </tbody> </table>	Award	Title	Level NQ-MQA	Total Required Credits	Classification Based on Cumulative Point Average (CPA)	BSc (Hons)	Applied Statistics	8	180	<b>1<sup>st</sup> Class Honours (First):</b> CPA $\geq$ 70 <b>2<sup>nd</sup> Class 1<sup>st</sup> Division Honours (2:1):</b> 60 $\leq$ CPA $\leq$ 69 <b>2<sup>nd</sup> Class 2<sup>nd</sup> Division Honours (2:2):</b> 50 $\leq$ CPA $\leq$ 59	Ordinary BSc	Applied Statistics	7	180	<b>3<sup>rd</sup> Class:</b> 45 $\leq$ CPA $\leq$ 49 <b>Pass:</b> 40 $\leq$ CPA $\leq$ 44	Diploma of Higher Education (DipHE)	Applied Statistics	6-7	120	<b>Distinction:</b> CPA $\geq$ 70 <b>Pass:</b> 40 $\leq$ CPA $\leq$ 69 <b>No Award:</b> CPA < 40	Certificate of Higher Education (CertHe)	Applied Statistics	6	60	<b>Distinction:</b> CPA $\geq$ 70 <b>Pass:</b> 40 $\leq$ CPA $\leq$ 69 <b>No Award:</b> CPA < 40
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<b>11. STUDENT SUPPORT</b>
<ul style="list-style-type: none"> <li>- Programme Manager</li> <li>- Help desk</li> <li>- Counselling</li> <li>- Admin support, IT support</li> <li>- Personal Tutor system or equivalent</li> <li>- Pastoral care programme</li> </ul>

## 12. Have Your Say

Open University values student feedback and students will be given opportunities to have their say on their learning experience in the following ways:

- Student programme and module evaluation surveys
- Acting as student representative and participating in a range of committees such as the staff-student consultative committee
- Participating in programme validation processes.

The University will respond to student feedback through the following channels:

- Response and action taken following the module evaluation survey will be posted on the e-platform.
- Action from minutes will be monitored by the chair of the relevant committees.
- Annual programme monitoring process will take into account student feedback.
- Programme review process (every five years).



Module Unit and Code				Knowledge and understanding						Cognitive Skills					Practical Skills					Transferable Skills and Personal Attributes		
Module Title	Code	Type	Mode	K1	K2	K3	K4	K5	K6	C1	C2	C3	C4	C5	P1	P2	P3	P4	P5	T1	T2	T3
<b>Year 1 NQ-MQA Level 6</b>																						
Essentials of Statistics	OUBs030111	C	BL	√	√		√	√		√	√	√	√	√	√	√				√		
Probability and Probability Distributions I	OUBs030112	C	BL	√	√		√	√		√	√	√	√	√	√	√			√	√		
Survey and Sampling Techniques	OUBs030113	C	BL	√		√	√	√		√	√	√	√		√	√	√		√	√	√	
Management Principles	OUBs030212	C	BL	√		√			√	√	√		√		√		√			√	√	
Probability and Probability distributions II	OUBs030121	C	BL	√	√	√	√			√	√	√	√	√	√		√			√	√	
Linear Models and Design of Experiments	OUBs030122	C	BL	√	√	√	√	√		√	√	√	√	√	√	√	√	√				
Time Series Analysis	OUBs030123	C	BL	√	√	√				√	√	√	√	√	√	√	√			√		√
Parametric and Non-Parametric Methods	OUBs030124	C	BL	√	√	√		√	√	√	√	√	√	√	√	√	√				√	
<b>Year 2 NQ-MQA Level 7</b>																						
Econometrics	OUBs030223	C	BL						√	√		√		√		√	√	√	√			
Real Analysis	OUBs030114	C	BL	√	√	√	√	√		√	√	√	√	√	√	√	√	√				
Biostatistics	OUBs030213	C	BL	√	√		√	√	√	√	√	√	√	√	√	√	√					
Statistical Inference I	OUBs030214	C	BL	√	√	√	√	√			√	√	√	√	√	√	√					
Statistical Inference II	OUBs030221	C	BL	√	√	√			√	√	√	√		√	√		√	√		√		√
Research Methods	OUBs030222	C	BL						√	√	√	√	√						√	√	√	
Data Analysis in Practice	OUBs030211	C	BL	√	√	√			√	√	√	√	√	√	√	√	√					
Stochastic Processes	OUBs030224	C	BL	√		√	√	√		√	√	√		√	√	√						
<b>Year 3 NQ-MQA level 8</b>																						
Dissertation	OUBs030324	C	BL	√	√	√					√	√			√		√	√			√	√

Big Data Analytics	OUs030311	C	BL	√	√		√	√		√	√	√	√		√	√	√	√				√	
Artificial Intelligence	OUs030312	C	BL		√	√					√	√	√		√	√	√		√	√			
Statistical Quality Processes	OUs030313	C	BL	√	√	√		√		√	√	√		√	√	√	√					√	
Operational Research	OUs030314	C	BL	√	√	√	√			√	√	√	√	√	√	√				√		√	
Data Science for Business	OUs030321	C	BL	√	√	√		√	√	√	√	√	√	√	√	√	√	√	√	√		√	√
Multivariate Analysis	OUs030322	C	BL	√	√			√	√	√	√	√	√	√	√	√	√			√		√	
Advanced Statistical Modelling	OUs030323	C	BL	√		√	√	√		√	√	√			√	√	√	√		√			

C = Core; E = Elective; DL = Distance Learning; BL= Blended Learning; CD = Campus Delivery

## Appendix 1: Assessment Mapping

Module Title	Assessment Method
Year 1 NQ-MQA Level 6	
<b>Essentials of Statistics</b>	<b>TMA 40%:</b> Online tests (10% point of TMA) Working questions/activities (30% point of TMA) <b>Final Examination 60%</b>
<b>Probability and Probability Distributions I</b>	<b>TMA 40%:</b> Online tests (10% point of TMA) Working questions/activities (30% point of TMA) <b>Final Examination 60%</b>
<b>Survey and Sampling Techniques</b>	<b>TMA 40%:</b> Online tests (10% point of TMA) Working questions/activities (30% point of TMA) <b>Final Examination 60%</b>
<b>Management Principles</b>	<b>TMA 40%:</b> Online tests (10% point of TMA) Essay 1,500 words (30% point of TMA) <b>Final Examination 60%</b>
<b>Probability and Probability Distributions II</b>	<b>TMA 40%:</b> Discussion forum participation (5% point of TMA) Working questions/activities (35% point of TMA) <b>Final Examination 60%</b>
<b>Linear Models and Design of Experiments</b>	<b>TMA: 30%</b> Individual assessment (10% point of TMA) Class test (15% point of TMA) Discussion forum participation (5% point of TMA) <b>Final examination: 70%</b>
<b>Time Series Analysis</b>	<b>TMA 40%:</b> Discussion forum participation (5% point of TMA) Applied questions (35% point of TMA) <b>Final Examination 60%</b>
<b>Real Analysis</b>	<b>TMA 40%:</b> Online test (20% of TMA) Working questions/activities (80% of TMA) <b>Final Examination 60%</b>
<b>Parametric and Non-Parametric methods</b>	<b>TMA 40%:</b> Discussion forum participation (5% point of TMA) Group project with webinar (35% point of TMA) <b>Final Examination 60%</b>
<b>Module Title</b>	<b>Assessment Method</b>
Year 2 NQ-MQA Level 7	
<b>Data Analysis in Practice</b>	<b>TMA 40%:</b> Online test (20% of TMA) Practical activities (80% of TMA) <b>Final Examination 60%</b>
<b>Biostatistics</b>	<b>TMA 40%:</b> Online test (20% of TMA) Working questions (80% of TMA) <b>Final Examination 60%</b>

<b>Statistical Inference I</b>	<b>TMA 40%:</b> Online test (20% of TMA) Working questions/activities (80% of TMA) <b>Final Examination 60%</b>
<b>Statistical Inference II</b>	<b>TMA: in class Test 30%</b> <b>Final examination: 70%</b>
<b>Research Methods</b>	<b>TMA 40%:</b> Discussion forum participation (10% of TMA) Essay (90% of TMA) <b>Final Examination 60%</b>
<b>Econometrics</b>	<b>TMA 40%:</b> Discussion forum participation (10% of TMA) Working questions/activities/Essay (90% of TMA) <b>Final Examination 60%</b>
<b>Stochastic Processes</b>	<b>TMA 40%:</b> Online test (20% of TMA) Working questions/activities (80% of TMA) <b>Final Examination 60%</b>



<b>Module Title</b>	<b>Assessment Method</b>
Year 3 NQ-MQA Level 8	
<b>Dissertation</b>	15,000-word dissertation
<b>Big Data Analytics</b>	<b>TMA 40%:</b> Discussion forum participation (10% of TMA) Essay (90% of TMA) <b>Final Examination 60%</b>
<b>Artificial Intelligence</b>	<b>TMA 40%:</b> Online exercises (10% of TMA) Working activities (90% of TMA) <b>Final Examination 60%</b>
<b>Statistical Quality Control</b>	<b>TMA 40%:</b> Discussion forum participation (10% of TMA) Working questions/activities (90% of TMA) <b>Final Examination 60%</b>
<b>Operational Research</b>	<b>TMA 40%:</b> Discussion forum participation (10% of TMA) Essay (90% of TMA) <b>Final Examination 60%</b>
<b>Data Science for Business</b>	<b>TMA 40%:</b> Discussion forum participation (10% of TMA) Working questions/activities (90% of TMA) <b>Final Examination 60%</b>
<b>Multivariate Analysis</b>	<b>TMA: in class Test 30%</b> <b>Final examination: 70%</b>
<b>Advanced Statistical Modelling</b>	<b>TMA 40%:</b> Discussion forum participation (10% of TMA) Working questions/activities (90% of TMA) <b>Final Examination 60%</b>