Programme Specification: Post Graduate Taught

For students starting in Academic Year 2022/23

1. Course Summary

Names of programme and award title(s)	MSc/ LLM Law, Artificial Intelligence and New Technologies PgCert in Law, Artificial Intelligence and New Technologies PgDip in Law, Artificial Intelligence and New Technologies
Award type	Taught Masters
Mode of study	Full-time Modular Part-time
Framework of Higher Education Qualification (FHEQ) level of final award	Level 7
Normal length of the programme	1 year full-time; two to three years maximum part-time
Maximum period of registration	The normal length as specified above plus 3 years
Location of study	Keele Campus
Accreditation (if applicable)	Not applicable
Regulator	Office for Students (OfS)
Tuition Fees	**UK students:** Full-time fee for 2022/23 is £9,500 Part-time fee for 2022/23 is £6,650 (year 1); £2,850 (year 2)* **International students:** Full-time fee for 2022/23 is £17,900

How this information might change: Please read the important information at http://www.keele.ac.uk/student-agreement/. This explains how and why we may need to make changes to the information provided in this document and to help you understand how we will communicate with you if this happens.

* We reserve the right to increase fees in subsequent years of study by an inflationary amount. Please refer to the accompanying Student Terms & Conditions for full details. Further information on fees can be found at http://www.keele.ac.uk/studentfunding/tuitionfees/

2. Overview of the Programme

The MSc/LLM in Law, AI and New Technologies is aimed at providing students from a diverse range of backgrounds with the opportunity to study at an advanced level the legal and technical issues that new and emerging technologies, such as Artificial Intelligence (AI), the Internet and other information technologies raise. Students will have the opportunity to explore and gain a deeper and more systematic understanding of

specialised issues of contemporary significance in Law and Computer Science, such as data privacy law; AI and robotics regulation; as well as the underlying principles and concepts of Internet technologies, web-based applications and enterprise and data analytics systems. The programme is unique in that it is interdisciplinary and fully integrated in the Schools of Law and Computing and Maths (SCM). Students may apply to enrol on the LLM or MSc award routes with opportunity to switch no later than end of Semester 1 of Year 1 at the discretion of the Programme Director. Students that wish to achieve the LLM qualification must successfully complete Law optional taught modules to the value of 30 credits and a dissertation in a Law topic or an inter-disciplinary dissertation worth 60 credits (at least 120 credits in Law are required in total for the LLM qualification).

Graduates from this programme would be in a position to access careers in law firms, tech companies, as data protection officers or advisors on new technologies governance in the national, European and international marketplaces. The MSc/ LLM recognises the wide variety of potential destinations for students after completion of their programme and as such uses compulsory modules from Law and Computer Science to deliver key interdisciplinary skills and enable students to obtain the required knowledge.

Students will be taught by dynamic academic staff with a wide range of expertise and research interests. Students are given the chance to choose from a wide range of modules- making this programme truly interdisciplinary. The MSc/LLM is designed to enable students to tailor their programme of study according to their background, professional needs and intellectual preferences, giving them full flexibility and control over their learning experience.

This course may be studied full-time (1 year) or part-time (commonly 2 years) or on a modular basis (maximum 5 years). The MSc/LLM consists of 180 M-level credits, made up of 120-credit taught modules and a 60-credit dissertation. If students do not wish to complete the full 180 credits, they may choose to achieve a Postgraduate Certificate (60 credits) or a Postgraduate Diploma (120 credits). A student must complete all taught modules before they may proceed to take the dissertation module.

3. Aims of the programme

The broad aims of the **MSc in Law, AI and New Technologies** programme are to enable you to:

- acquire a systematic understanding of the law and technological issues at the forefront of knowledge pertaining to new technologies and AI;
- acquire research and scholarship skills to undertake independent research in Law and Computing;
- develop critical, analytical and problem based learning skills;
- develop independent active learning;
- develop communication, numeracy, time management, self- management and professional development skills.

The broad aims of the **LLM in Law, AI and New Technologies** are to enable you to:

- acquire a systematic understanding of the law at the forefront of knowledge pertaining to new technologies and AI;
- acquire research and scholarship skills to undertake independent research in Law;
- develop critical, analytical and problem based learning skills;
- develop independent active learning;
- develop communication, numeracy, time management, self- management and professional development skills.

4. What you will learn

The intended learning outcomes of the programme (what students should know, understand and be able to do at the end of the programme), can be described under the following headings:

- Subject knowledge and understanding
- Subject specific skills
- Key or transferable skills (including employability skills)

Students who complete the **MSc in Law, AI and New Technologies** will be able to:

Subject knowledge and understanding

- Demonstrate a systematic knowledge and close understanding of the legal and technological issues pertaining to new technologies.
- Articulate a clear assessment of the legal frameworks regulating emerging technologies and their potential shortcomings.
- Acquire an understanding of essential facts, concepts, principles and theories relating to Law, Computing and computer applications as appropriate to the programme of study.
- Analyse problems arising in the application of emerging technologies and formulate reasoned and

justified arguments informed by legal and technical principles to address these.

- Critically evaluate the legal, technical, ethical and cultural issues related to robotics, AI and big data and demonstrate an awareness of their societal and environmental impact.

Subject specific skills

- Demonstrate the ability to critically evaluate the legal, technical, ethical and societal dimensions of new technologies.
- Use the specific techniques and methodologies of both law and computer science to critically evaluate and analyse complex problems.
- Apply legal and computational technical principles to complex problems and devise appropriate solutions.
- Identify and use primary and secondary materials in law.
- Deploy effectively the tools used for the construction and documentation of computer applications, with particular emphasis on understanding the whole process involved in the effective deployment of computers to solve practical problems.
- Demonstrate the knowledge and understanding of advanced aspects of computer systems and their use.
- Demonstrate the ability to critically review the literature, which includes identifying all of the key developments in a particular area of study, critically analysing them and identifying limitations and avenues for further development or explanation.
- Demonstrate the ability to assess systems (which may include legal frameworks, software, devices, people, and so on), to recognise the individual components and to understand their interaction, to improve systems, to replace them and to create them.
- Plan and successfully undertake a large piece of independent research.
- Evaluate and respond to criticism and alternative arguments.

Key or transferable skills (including employability skills)

- Think creatively, independently and using an inter-disciplinary approach about law and new technologies issues.
- Demonstrate numeracy, literacy and information literacy skills and construct well-argued and grammatically correct documents.
- Demonstrate the ability to locate and retrieve relevant ideas and ensure these are correctly and accurately referenced and attributed.
- Articulate a clear assessment informed by inter-discipline perspectives of differing critical positions, demonstrating skills of judgment, reasoning and problem-solving.
- Demonstrate self-management skills, such as self-awareness and reflection; goal setting and action planning; independence and adaptability; acting on initiative; innovation and creativity.
- Demonstrate the ability to work independently, plan effectively and meet deadlines, and respond readily to changing situations and priorities.
- Demonstrate communication skills, such as reflection and communication; the ability to succinctly present rational and reasoned arguments that address a given problem or opportunity, to a range of audiences (orally, electronically or in writing).
- Demonstrate team working and management skills, such as the ability to recognise and make best use of the skills and knowledge of individuals to collaborate. To be able to identify problems and desired outcomes and negotiate to mutually acceptable conclusions. To understand the role of a leader in setting direction and taking responsibility for actions and decisions.
- Demonstrate contextual awareness skills, such as the ability to understand and meet the needs of individuals, legal systems, business and the community.
- Demonstrate sustainability skills, such as recognising factors in environmental, legal and societal contexts relating to the opportunities and challenges created by new technologies across a range of human activities.

Students who complete the **LLM in Law, AI and New Technologies** will be able to:

Subject knowledge and understanding

- Demonstrate a systematic knowledge and close understanding of the legal issues pertaining to new technologies.
- Articulate a clear assessment of the legal frameworks regulating emerging technologies and their potential shortcomings.
- Acquire an understanding of essential facts, concepts, principles and theories relating to Law as appropriate to the programme of study.
- Analyse problems arising in the application of emerging technologies and formulate reasoned and justified arguments informed by legal principles to address these.
- Critically evaluate the legal, ethical and cultural issues related to robotics, AI and big data and demonstrate an awareness of their societal and environmental impact.

Subject specific skills

- Demonstrate the ability to critically evaluate the legal, technical, ethical and societal dimensions of new technologies.
- Use the specific techniques and methodologies of law to critically evaluate and analyse complex problems.
- Apply legal principles to complex problems and devise appropriate solutions.
- Identify and use primary and secondary materials in law.
- Demonstrate the ability to critically review the literature, which includes identifying all of the key developments in a particular area of study, critically analysing them and identifying limitations and avenues for further development or explanation.
- Demonstrate the ability to socio-legal frameworks, to recognise their individual components and to understand their interactions and to improve systems.
- Plan and successfully undertake a large piece of independent research.
- Evaluate and respond to criticism and alternative arguments.

Key or transferable skills (including employability skills)

- Think creatively, independently and using an inter-disciplinary approach about law and new technologies issues.
- Demonstrate numeracy, literacy and information literacy skills and construct well-argued and grammatically correct documents.
- Demonstrate the ability to locate and retrieve relevant ideas and ensure these are correctly and accurately referenced and attributed.
- Articulate a clear assessment of differing critical positions, demonstrating skills of judgment, reasoning and problem-solving.
- Demonstrate self-management skills, such as self-awareness and reflection; goal setting and action planning; independence and adaptability; acting on initiative; innovation and creativity.
- Demonstrate the ability to work independently, plan effectively and meet deadlines, and respond readily to changing situations and priorities.
- Demonstrate communication skills, such as reflection and communication; the ability to succinctly present rational and reasoned arguments that address a given problem or opportunity, to a range of audiences (orally, electronically or in writing).
- Demonstrate team working and management skills, such as the ability to recognise and make best use of the skills and knowledge of individuals to collaborate. To be able to identify problems and desired outcomes and negotiate to mutually acceptable conclusions. To understand the role of a leader in setting direction and taking responsibility for actions and decisions.
- Demonstrate contextual awareness skills, such as the ability to understand and meet the needs of individuals, legal systems, business and the community.
- Demonstrate sustainability skills, such as recognising factors in environmental, legal and societal contexts relating to the opportunities and challenges created by new technologies across a range of human activities.

Keele Graduate attributes

Engagement with this programme will enable you to develop your intellectual, personal and professional capabilities. At Keele, we call these our ten Graduate Attributes and they include independent thinking, synthesizing information, creative problem solving, communicating clearly, and appreciating the social, environmental and global implications of your studies and activities. Our educational programme and learning environment is designed to help you to become a well-rounded graduate who is capable of making a positive and valued contribution in a complex and rapidly changing world, whichever spheres of life you engage in after your studies are completed.

Further information about the Keele Graduate Attributes can be found here: http://www.keele.ac.uk/journey/

5. How is the programme taught?

The programme is taught through a combination of compulsory modules offered by the School of Law and the SCM and optional modules. The compulsory and the optional modules are weighted at 15 credits (broadly equivalent to 150 hours work of which some 20 will be contact time). During each taught module, students take part in lectures, tutor- led seminars and discussions, small group exercises, workshops, practicals and other interactive activities (e.g. simulation exercises, moot courts). The modules incorporate blended learning, flipped classrooms and asynchronous resources supplementing contact time. Each module is accompanied by extensive independent study and throughout the programme students are encouraged and required to undertake independent reading to both supplement and consolidate the classes and to broaden individual knowledge and understanding of the subject.

All students will receive initial guidance on how to identify, locate and use materials available in libraries and elsewhere (including electronic resources). They will also be provided with an introduction to the MSc/LLM in Law, AI and New Technologies via an online information pack and pre-course reading list. An introductory guide to Studying Law will be provided to students who do not have a legal background.

Detailed written and, if requested, oral feedback is provided on all coursework. Apart from these formal activities, students are also provided with regular opportunities to talk through particular areas of difficulty, and any special learning needs they may have, with their Personal Tutors or module lecturers on a one-to-one basis. There is also time set aside during each module for students to consult individually with teaching staff and receive guidance and feedback on assessment and module performance. Lecturers will hold weekly office hours during which they are available for consultation with students.

The dissertation is principally an independent research project, but support is provided in preparing a dissertation proposal through dissertation workshops and through the mentoring of a supervisor or supervisors. As this is an interdisciplinary programme, students can undertake inter-disciplinary research using Law and Computing resources when researching for their dissertation and will be given the opportunity to receive advice and feedback from staff at both Schools.

A graduate research workshop may also be organised at the end of Semester 2 during which students are given an opportunity to present their work-in-progress and receive feedback from fellow students and teaching staff.

6. Teaching Staff

The programme is delivered on an inter-disciplinary basis by staff based primarily at the Schools of Law and Computing and Mathematics. Both Schools comprise of an international faculty, which has a diverse body of expertise and experience in a number of disciplinary areas of practice and research. Academic staff from both Schools teach on the compulsory and optional modules for this programme. Individual staff biographies can be found at: https://www.keele.ac.uk/law/people/academicstaff/ (Law)

https://www.keele.ac.uk/scm/staff/ (SCM)

The University will attempt to minimise changes to our core teaching teams, however, delivery of the programme depends on having a sufficient number of staff with the relevant expertise to ensure that the programme is taught to the appropriate academic standard.

Staff turnover, for example where key members of staff leave, fall ill or go on research leave, may result in changes to the programme's content. The University will endeavour to ensure that any impact on students is limited if such changes occur.

7. What is the structure of the programme?

To achieve the MSc qualification, students must successfully complete taught modules to the value of 120 credits (compulsory and optional modules) and a dissertation worth 60 credits (180 credits are required in total).

Students that wish to achieve the LLM qualification must successfully complete Law optional taught modules to the value of 30 credits and a dissertation in a Law or an inter-disciplinary topic worth 60 credits (at least 120 credits in Law are required in total for the LLM qualification).

Students have the flexibility to choose whether to complete the entire programme in one year as a full time student or to take one of our flexible part time pathways. Through the flexible part time pathways, students may choose from the following options:

- Take all 120 credits from taught modules in year one and the dissertation in year two;
- Take 60 credits from taught modules per year for two years and the dissertation in year three;
- Take another combination of modules over any period of time up to four years, followed by the dissertation of one year.

Please note that international students who require a Tier 4 visa are not eligible to study part-time.

If students do not wish to take the dissertation module, they may complete their studies after achieving 120 credits from taught modules with a Postgraduate Diploma (PGDip), or after 60 credits with a Postgraduate Certificate (PGCert). Students who wish to finish after gaining less than 60 credits from taught courses may apply to have those credits applied to a different programme at a later date.

1. Compulsory Modules _60 credits_	1. Regulating Data and the Digital World (sem 1)
	
	2. Computer Science (CS) module (sem 1):
	
	  - System Design and Programming (sem 1) _for students with no Computer Science background_
	
	or
	
	  - Mathematics for AI and Data Science _for students with a Computer Science background_
	
	3. Robot and AI Law (sem 2)
	
	4. CS core module (sem 2)- _students must choose from the list in the table below_

2. Optional modules _60 credits_	Optional modules from Law, SCM, the Language Centre, the School of Social, Political & Global Studies and Keele Business School (see list below)
3. Dissertation _60 credits_	15,000-20,000 word dissertation on a topic on new and emerging technologies

1. Compulsory Modules

All students must take **two** Law modules:

Semester 1	Semester 2
LAW-40066 Regulating Data and the Digital World	LAW-40068 Robots and AI Law

All students must take **two** Computer Science modules:

Semester 1		Semester 2 (students must choose one of the following):
Students with no CS background: CSC-40044 System Design and Programming	Students with CS background: CSC-40072 Mathematics for AI and Data Science	CSC-40038 Collaborative Application Development CSC-40050 Research and Consultancy Skills CSC-40046 Web Technologies and Security

The Computer Science modules depend on the students' background and must be chosen in consultation with the Computer Science Programme Co-Director/ personal tutor.

2. Optional modules

A broad selection of optional modules in Law, Computer Science and other disciplines will enable students to understand the pervasive and highly interdisciplinary nature of the programme and allow them to explore exciting research questions when undertaking a dissertation.

For example, a student who wishes to write a dissertation on the use of AI in warfare would benefit from selecting optional modules such as International Humanitarian Law: War, Law & Justice and International Law & Human Rights. A student who wishes to undertake a dissertation on the role that new technologies can play in promoting environmental and sustainability objectives would benefit from selecting optional modules such as Dimensions of Environmental Politics and International Environmental Law. A student who wishes to

write a dissertation on topics of social inclusion and digital (in)equalities would benefit from selecting optional modules such as Human Rights & Global Politics and Race and Justice.

Students are strongly encouraged to undertake at least one research training module in Law, Computing or in both disciplines. There are two main research training modules incorporated in this programme: 1) CSC-40050 Research and Consultancy Skills (offered by SCM), and 2) Foundations in Law and Society Research: Theories and Concepts (offered by the School of Law). There are also further research-related modules offered by Law (Socio-legal Studies: Approaches and Themes) and SCM (Research Horizons). Research training modules are included as optional modules in this programme to maintain its overall flexibility and allow students to tailor their study preferences on the basis of their background, interests and future priorities.

Students will take 60 credits from a suite of optional modules offered by the Law School, CS and other Schools. Availability of these optional modules will depend on timetabling and other circumstances but may include:

Law optional modules	Computer Science optional modules	Other optional modules
- Socio-legal Studies: Approaches and Themes - Foundations in Law and Society Research: Theories and Concepts - Transnational Commercial Law - International Arbitration - Introduction to International Economic Law - Foundations of Human Rights - Equality, Discrimination, Minorities - Human Rights & Global Politics - International Humanitarian Law: War, Law & Justice - Foundations of International Law - International Law & Human Rights - International Environmental Law - Global Business Regulation	- Visualisation for Data Analytics - Applications of AI, Machine Learning and Data Science - Cloud Computing - Advanced Programming in Python - Software Engineering - Research Horizons - The Internet of Things - User Interaction Design - Distributed Intelligent Systems - Data Analytics and Databases - Fundamentals of Computers and Networks (*option available only for students with no CS background*) CS modules listed above and not taken as compulsory can by chosen as optional modules	- Race and Justice: Civil Rights in the US (School of Social, Political & Global Studies) - Dimensions of Environmental Politics (School of Social, Political & Global Studies) - International Business Context (Keele Business School) - Contemporary Challenges in Global Business (Keele Business Sschool) - English Language for Academic Purposes (Language Centre) (*option available for international students & non-native speakers*)

3. Dissertation

After the taught modules, students must undertake a formal academic project supervised by academic staff in one of the Schools. Depending on the focus of the dissertation, students can be also provided a co-

supervisor or advisor from the other School.

Year	Compulsory	Optional		Electives	
		Min	Max	Min	Max
Level 7	120	60	60	0	0

Module Lists

Level 7

Please note that CSC-40044 System Design and Programming is a compulsory module for students with no-CS background.

CSC-40050 Research and Consultancy Skills has also been identified as compulsory, but the programme provides a choice of compulsory CS modules for students.

Compulsory modules	Module Code	Credits	Period
System Design & Programming	CSC-40044	15	Semester 1
Regulating Data and the Digital World	LAW-40066	15	Semester 1
Dissertation	LAW-40070	60	Semester 1-2
Research and Consultancy Skills	CSC-40050	15	Semester 2
Robot and AI Law	LAW-40068	15	Semester 2

Optional modules	Module Code	Credits	Period
Research Horizons	CSC-40041	15	Semester 1
User Interaction Design	CSC-40043	15	Semester 1
Distributed Intelligent Systems	CSC-40045	15	Semester 1
Data Analytics and Databases	CSC-40054	15	Semester 1
The Internet of Things	CSC-40056	15	Semester 1
Fundamentals of Computers and Networks	CSC-40064	15	Semester 1
Mathematics for AI and Data Science	CSC-40072	15	Semester 1
Academic English for Postgraduate Students 1	ENL-40001	15	Semester 1
Academic English for Postgraduate Students 2	ENL-40002	15	Semester 1
International Law and Human Rights	LAW-40038	15	Semester 1
Foundations of International Law	LAW-40040	15	Semester 1
Equality, Discrimination, Minorities	LAW-40047	15	Semester 1
Foundations of Human Rights	LAW-40048	15	Semester 1
Socio-legal studies: applications and themes	LAW-40052	15	Semester 1
Transnational Commercial Law	LAW-40060	15	Semester 1
International Business Context	MAN-40114	15	Semester 1
Dimensions of Environmental Politics	PIR-40106	15	Semester 1

Optional modules	Module Code	Credits	Period
Collaborative Application Development	CSC-40038	15	Semester 2
Cloud Computing	CSC-40039	15	Semester 2
Web Technologies and Security	CSC-40046	15	Semester 2
Visualisation for Data Analytics	CSC-40048	15	Semester 2
Software Engineering	CSC-40066	15	Semester 2
Advanced Programming in Python	CSC-40068	15	Semester 2
Applications of AI, Machine Learning and Data Science	CSC-40070	15	Semester 2
Introduction to International Economic Law	LAW-40037	15	Semester 2
International Environmental Law	LAW-40043	15	Semester 2
International Humanitarian Law: War, Law and Justice	LAW-40045	15	Semester 2
Human Rights and Global Politics	LAW-40046	15	Semester 2
Global Business Regulation	LAW-40051	15	Semester 2
Foundations in Law and Society Research: Theories and Concepts	LAW-40053	15	Semester 2
Global Health Law	LAW-40056	15	Semester 2
International Arbitration	LAW-40062	15	Semester 2
Contemporary Challenges in Global Business	MAN-40118	15	Semester 2
Race and Justice: Civil Rights in the U.S.	PIR-40119	15	Semester 2

All students must take **two** Computer Science compulsory modules:

Semester 1 (students must choose one of the following):

Students with no CS background: CSC-40044 System Design and Programming

Students with CS background: CSC-40072 Mathematics for AI and Data Science

Semester 2 (students must choose one of the following):

CSC-40038 Collaborative Application Development

CSC-40050 Research and Consultancy Skills

CSC-40046 Web Technologies and Security

Learning Outcomes

The table below sets out what students learn in the programme and the modules in which that learning takes place. Details of how learning outcomes are assessed through these modules can be found in module specifications.

Subject Knowledge and Understanding	
Learning Outcome	**Module in which this is delivered**

Subject Knowledge and Understanding	
Learning Outcome	**Module in which this is delivered**
Systematic knowledge and close understanding of the legal and technological issues pertaining to new technologies	Regulating Data and the Digital World Robot and AI Law System Design and Programming Mathematics for AI and Data Science Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security
A clear assessment of the legal frameworks regulating emerging technologies and their potential shortcomings	Regulating Data and the Digital World Robot and AI Law
An understanding of essential facts, concepts, principles and theories relating to Law, Computing and computer applications as appropriate to the programme of study	Regulating Data and the Digital World Robot and AI Law System Design and Programming Mathematics for AI and Data Science Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security Law optional modules
The ability to analyse problems arising in the application of emerging technologies and formulate reasoned and justified arguments informed by legal and technical principles to address these.	Regulating Data and the Digital World Robot and AI Law Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security Dissertation
An ability to critically evaluate the legal, technical, ethical and cultural issues related to robotics, AI and big data and demonstrate an awareness of their societal and environmental impact.	Regulating Data and the Digital World Robot and AI Law System Design and Programming Mathematics for AI and Data Science Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security

Subject Specific Skills	
Learning Outcome	**Module in which this is delivered**
Use the specific techniques and methodologies of both law and computer science to critically evaluate and analyse complex problems.	Regulating Data and the Digital World Robot and AI Law System Design and Programming Mathematics for AI and Data Science Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security Dissertation
An ability to apply legal and computational technical principles to complex problems and devise appropriate solutions.	Regulating Data and the Digital World Robot and AI Law System Design and Programming Mathematics for AI and Data Science Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security Dissertation
Identify and use primary and secondary materials in law.	Regulating Data and the Digital World; Robot and AI Law; Law optional modules
Communication skills to address effectively expert/technical and non-expert audiences.	Regulating Data and the Digital World; Robot and AI LawSystem Design and Programming Mathematics for AI and Data Science Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security
Deploy effectively the tools used for the construction and documentation of computer applications, with particular emphasis on understanding the whole process involved in the effective deployment of computers to solve practical problems.	System Design and Programming Mathematics for AI and Data Science Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security CS optional modules

Subject Specific Skills	
Learning Outcome	**Module in which this is delivered**
Understanding of advanced aspects of computer systems and their use.	System Design and Programming Mathematics for AI and Data Science Visualisation for Data Analytics Applications of AI, Machine Learning and Data Science Collaborative Application Development CSC-40050 Research and Consultancy Skills Cloud Computing Advanced Programming in Python Software Engineering Web Technologies and Security CS optional modules
An ability to critically review the literature, which includes identifying all of the key developments in a particular area of study, critically analysing them and identifying limitations and avenues for further development or explanation.	All compulsory modules + dissertation
Ability to plan and successfully undertake a large piece of independent research.	Dissertation
An ability to assess systems (which may include legal frameworks, software, devices, people, and so on), to recognise the individual components and to understand their interaction, to improve systems, to replace them and to create them.	All compulsory modules + dissertation

Key or Transferable Skills (graduate attributes)	
Learning Outcome	**Module in which this is delivered**
Ability to evaluate and respond to criticism and alternative arguments.	All compulsory modules + dissertation
Ability to think creatively and independently, and using an inter-disciplinary approach about law and new technologies issues.	Dissertation
Demonstrate numeracy, literacy and information literacy skills and construct well-argued and grammatically correct documents.	All compulsory modules + dissertation
Articulate a clear assessment informed by inter-discipline perspectives of differing critical positions, demonstrating skills of judgment, reasoning and problem-solving.	All compulsory modules + dissertation
An ability to critically review the literature, which includes identifying all of the key developments in a particular area of study, critically analysing them and identifying limitations and avenues for further development or explanation.	Dissertation

Intellectual skills	
Learning Outcome	**Module in which this is delivered**
Ability to set goals and identify resources for the purpose of learning.	All compulsory modules + dissertation

NOTE: all modules are subject to availability and the decision as to whether optional modules run or not in

any given year will be communicated in advance.

8. Final and intermediate awards

MSc Law, AI and New Technologies **LLM Law, AI and New Technologies**	180 credits	You will require at least 150 credits at Level 7 which must include a dissertation/research project of at least 60 credits at Level 7.
Postgraduate Diploma	120 credits	You will require at least 90 credits at Level 7
Postgraduate Certificate	60 credits	You will require at least 40 credits at Level 7

9. How is the Programme Assessed?

The wide variety of assessment methods used on this programme at Keele reflects the broad range of knowledge and skills that are developed as you progress through the degree programme. Teaching staff pay particular attention to specifying clear assessment criteria and providing timely, regular and constructive feedback that helps to clarify things you did not understand and helps you to improve your performance. The following list is representative of the variety of assessment methods used on your programme:

- **Unseen and Open book examinations**: these test a student's knowledge and understanding of law and computer science topics. Such examinations contain compulsory and possibly also optional questions.
- **Essays**: these demonstrate a student's understanding of a particular area of the programme (or one of the other taught subjects, i.e., data privacy/ AI law/) as well as their ability for original thinking and high-level written communication skills.
- **Class tests**: these are taken during the course of a module, usually in a seminar slot. They are intended to assess a student's current understanding and subject knowledge in that module in a structured and focused manner. Some taught modules may have class tests as part of the assessment profile.
- **Coursework & other activities:** normally consists of regular short assignments designed to assess, in more depth than class tests, a student's knowledge and understanding of the course material. Some of these assignments may be computer based; others take the form of reports, blogposts, vlogs, group projects, simulation exercises, mock trials, privacy audits and moot courts.
- **Short reports**: for which students are required to write up their own account of small group studies and discussions on particular topics.
- **Dissertations** are formal reports of work carried out by students undertaking a project. **Projects** involve the integration and application of theoretical knowledge and problem-solving skills to an identified research problem within the disciplines.
- **Oral presentations and research reports** assess a student's ability to communicate their knowledge and understanding, both visually and orally, to both general and academic audiences.

Marks are awarded for summative assessments designed to assess your achievement of learning outcomes. You will also be assessed formatively to enable you to monitor your own progress and to assist staff in identifying and addressing any specific learning needs. These may take the form of feedback on participation in group discussions, submission of essay plans to tutors for feedback, short reports, group presentations, short online exercises, or mock examinations. Feedback, including guidance on how you can improve the quality of your work, is also provided on all summative assessments within three working weeks of submission, unless there are compelling circumstances that make this impossible, and more informally in the course of tutorial and seminar discussions.

10. Accreditation

This programme does not have accreditation from an external body.

11. University Regulations

The University Regulations form the framework for learning, teaching and assessment and other aspects of the student experience. Further information about the University Regulations can be found at:
http://www.keele.ac.uk/student-agreement/

If this programme has any exemptions, variations or additions to the University Regulations these will be detailed in an Annex at the end of this document titled 'Programme-specific regulations'.

12. What are the typical admission requirements for the Programme?

The MSc/LLM in Law, AI and New Technologies is open to graduates in Law, Computer Science or any other discipline, as well as persons with appropriate professional qualifications and/or experience. Applications are welcome from current legal practitioners.

Applicants for whom English is not a first language must provide evidence of a qualification in English language. The minimum score for entry to the programme is academic IELTS 6.5 or equivalent. Students who have taken one of the English language qualifications but did not achieve the required grade must complete an Academic English module. This module will provide them with 15-credits that count for their 180 study credits.

See the relevant course page on the website for the admission requirements relevant to this programme: https://www.keele.ac.uk/study/

13. How are students supported on the programme?

Support for student learning and welfare is provided in a number of ways.

- Module leaders and tutors are responsible for providing learning support on the individual modules. They also give feedback on all summative and formative assessment, from individual feedback on coursework to more general feedback on examinations.
- The Programme Lead (Law) and liaison tutor in SCM are available to support students across the programme.
- Students are allocated a personal tutor, whose role is to assist students with personal or academic problems, to advise on pastoral issues, and to provide individual supervision and feedback on written assignments. Students will have personal meetings with their tutor throughout the academic year. Contact is also maintained via email and on Microsoft Teams. Students should approach their Personal Tutor, in the first instance, if they are experiencing issues with any part of the programme. Personal Tutors also act as a first point of contact on any non-academic issues that may be affecting their learning and can also refer students to a range of specialist health, welfare and financial services coordinated by Student Services. Study Skill Support is offered to students by the Law School Learning Development Fellow.
- The members of academic staff in the Schools of Law and Computer Science operate an open-door policy whereby lecturers and tutors are happy to see and advise students at any reasonable time or by mutually convenient appointment.
- The dissertation supervisor will offer direct advice and supervision in the production of the dissertation. The Programme co-director, the dissertation coordinator and the postgraduate director for the Law School are also available to assist students.
- All students receive initial guidance on how to identify, locate and use materials available in libraries and elsewhere (including electronic resources). Guidelines are provided for the production of coursework assignments and dissertations and these are reinforced by seminars and individual supervision, focusing on essay planning and writing and research methodology. Detailed written and oral feedback is provided on all course work.
- Each module is supported with a designated KLE/ Microsoft Teams page which includes materials for students, including lecture slides, recordings, links to external resources, such as relevant websites and journal articles. There will also be a monitored discussion forum.
- Central university services available to all students include: the central library together with dedicated law and CS librarians; an international office; a student counselling service; and a disability office. More information about these services is available online at https://www.keele.ac.uk/studentservices/ (Student Services). Students may also join the Keele Postgraduate Association (http://kpa.org.uk/).
- The Law School also offers a small library and a postgraduate study room available to students on this programme.
- Students whose first language is not English are offered language classes, facilities and services by the University's Language Centre. Following diagnostic English language assessment, students may be required or recommended to take English language classes offered by the Language Centre. In addition to modules on English for academic study, students have access to one-to-one tutorials for individual help and advice, and to a wealth of resources for self-study and practice.

14. Learning Resources

- The relevant Programme Handbook will provide you with key information and guidance on structure, content and assessment.
- The main body of the programme is delivered through self-study materials, which comprise both traditional text-based resources and a range of electronic multi-media resources that will be accessed through the KLE and MS Teams; this latter resource is also used to enhance student support during the

period of the course and provides a forum for the exchange of ideas and discussion.

- You may contact the programme Directors and the MSc Administrator, or their substitutes, via e-mail at all times on weekdays and you may expect a response to your communications within 3 working days.
- You will have access to the programme Directors and tutors by appointment.
- You will have access to material in the programme's online learning resources.
- There are also regular research seminars presented by Keele or external staff that take place throughout the academic year and to which postgraduate students are invited. These provide a useful complement to the taught sessions and, for those students considering research degrees, provide an insight into academic research in practice.
- Keele University Library: The library has many resources available, both on campus and online. Further information about the library can be found at: https://www.keele.ac.uk/library/. Students can access the various materials available on-line using the recommended username and password. Details are available from the Library website: https://www.keele.ac.uk/library/usingthelibrary/onlineresources/. You will have access to Keele's Library Information Services on campus and via the Internet.
- The Keele Moot Court: Part of the teaching will take place in our Moot Court, a flexible high specification facility located at the heart of the Law School. The Moot Court is fully equipped with state-of-the art audio-visual equipment and will be used for a variety of teaching and co-curricular activities such as mooting, simulation exercises or other activities undertaken in this programme.
- There is a specialist teaching laboratory and associated workroom with equivalent configuration of machines, both of which are reserved for access by those studying postgraduate taught courses in SCAM. All the systems available have software appropriate to the modules included in this course, in addition to those provided as standard by the University.

15. Other Learning Opportunities

It is possible for students to register on a single module (modular programme of study) for Continuing Professional Development or other purposes. Students may choose to attend the module without completing the assessment, but no credits would be awarded for this. Students should contact the postgraduate administrator (law.postgrad@keele.ac.uk) for further information.

There is an active research community within the Schools of Law and Computing and postgraduate students are invited to participate in the wide range of seminars and other research activities, such as workshops and academic conferences held at Keele. Research seminar programmes are organised each year, where members of staff present their latest work. There are also other lectures and research seminars organised in other Schools and Research Institutes within the University that may be of interest to students. Students will be informed of these via their Keele email address.

16. Additional Costs

As to be expected there will be additional costs for inter-library loans and potential overdue library fines, print and graduation. We do not anticipate any further costs for this programme.

17. Quality management and enhancement

The quality and standards of learning in this programme are subject to a continuous process of monitoring, review and enhancement.

- The School Education Committee is responsible for reviewing and monitoring quality management and enhancement procedures and activities across the School.
- Individual modules and the programme as a whole are reviewed and enhanced every year in the annual programme review which takes place at the end of the academic year.
- The programmes are run in accordance with the University's Quality Assurance procedures and are subject to periodic reviews under the Internal Quality Audit (IQA) process.

Student evaluation of, and feedback on, the quality of learning on every module takes place every year using a variety of different methods:

- The results of student evaluations of all modules are reported to module leaders and reviewed by the Programme Committee as part of annual programme review.
- Findings related to the programme from the annual Postgraduate Taught Experience Survey (PTES), and from regular surveys of the student experience conducted by the University, are subjected to careful analysis and a planned response at programme and School level.
- Feedback received from representatives of students on the programme is considered and acted on at regular meetings of the Student Staff Voice Committee.

The University appoints senior members of academic staff from other universities to act as external examiners on all programmes. They are responsible for:

- Approving examination questions

- Confirming all marks which contribute to a student's degree
- Reviewing and giving advice on the structure and content of the programme and assessment procedures

Information about current external examiner(s) can be found here:
http://www.keele.ac.uk/qa/externalexaminers/currentexternalexaminers/

18. The principles of programme design

The programme described in this document has been drawn up with reference to, and in accordance with the guidance set out in, the following documents:

This programme was designed to complement the University's Learning and Teaching and Assessment strategies, in particular, the University's focus on internationalisation and interdisciplinary study. It is in keeping with the University's commitment to a flexible postgraduate curriculum and to developing innovative taught postgraduate programmes that draw on internationally recognised research expertise. It was also designed in a way that meets and closely reflects the requirements of the Quality Assurance Agency's Framework for Higher Education Qualifications.

a. UK Quality Code for Higher Education, Quality Assurance Agency for Higher Education:
http://www.qaa.ac.uk/quality-code
b. Keele University Regulations and Guidance for Students and Staff: http://www.keele.ac.uk/regulations

Version History

This document

Date Approved: 08 March 2022

Previous documents

Version No	Year	Owner	Date Approved	Summary of and rationale for changes