

Royal Holloway, University of London
Course specification for a postgraduate award
MSc Information and Cyber Security with Year in Industry (3888)

Section 1 – Introduction to your course

This course specification is a formal document, which provides a summary of the main features of your course and the learning outcomes that you might reasonably be expected to achieve and demonstrate if you take full advantage of the learning opportunities that are provided. Further information is contained in the University prospectus, and in various handbooks, all of which you will be able to access online. Alternatively, further information on the University's academic regulations and policies can be found [here](#). Further information on the University's Admissions Policy can be found [here](#).

Your degree course in Information and Cyber Security with Year in Industry provides progressive structures in which you will be able to gain ever-wider knowledge and understanding, and appropriate skills. The two mandatory modules introduce you to the various ways in which different organisations solve problems of security management and how computer systems are made secure. Building on the core modules, the optional courses introduce a wider range of techniques and assess their suitability for specific roles. Research skills are developed to a professional level through the design, execution and written report of an independent research project, which also serves to integrate knowledge and skills acquired throughout the programme.

While Royal Holloway keeps all the information made available under review, courses and the availability of individual modules, especially optional modules are necessarily subject to change at any time, and you are therefore advised to seek confirmation of any factors which might affect your decision to follow a specific course. In turn, Royal Holloway will inform you as soon as is practicable of any significant changes which might affect your studies.

The following is a brief description for some of the most important terminology for understanding the content of this document:

Degree course – Also referred to as 'programme', this term refers to the qualification you will be awarded upon successful completion of your studies. 'Courses' were formerly known as 'programmes' at Royal Holloway.

Module – This refers to the credits you will study each year to complete your degree course. Postgraduate taught degrees at Royal Holloway comprise 180 credits. On some degree courses a certain number of optional modules must be passed for a particular degree title. 'Modules' were formerly known as 'course units' at Royal Holloway.

Section 2 – Course details			
Date of specification update	October 2025	Location of study	Egham
Course award and title	MSc Information and Cyber Security with Year in Industry	Level of study	Postgraduate
Course code	3888	Year of entry	2026/27
Awarding body	Royal Holloway, University of London		
Department or school	EPMS/ISG	Other departments or schools involved in teaching the course	N/A
Mode(s) of attendance	Full time	Duration of the course	One year (52 weeks) full-time
Accrediting Professional, Statutory or Regulatory Body requirement(s)	National Cybersecurity Centre (NCSC)		
Link to Coursefinder for further information:	https://www.royalholloway.ac.uk/studying-here/	For queries on admissions:	https://royalholloway.ac.uk/applicationquery

Section 3 – Degree course structure

3.1 Mandatory module information

The following table summarises the mandatory modules which students must take in each year of study

Module code	Module title	Credits	FHEQ level	Module status (Mandatory Condonable MC or Mandatory Non-Condonable MNC)
IY5501	Applied Security Management	30	7	MC
IY5502	Introduction to Cryptography and Security Mechanisms	30	7	MC
IY5503	Cyber Entrepreneurship and Practice	15	7	MC
IY5504	Research Methods in Cyber Security	15	7	MC
IY5510	Project (Year in Industry)	60	7	MNC

This table sets out the most important information for the mandatory modules on your degree course. These modules are central to achieving your learning outcomes, so they are compulsory, and all students on your degree course will be required to take them. You will be automatically registered for these modules each year. Mandatory modules fall into two categories: 'condonable' or 'non-condonable'.

In the case of mandatory 'non-condonable' (MNC) modules, you must pass the module before you can proceed to the next year of your course, or to successfully graduate with a particular degree title. In the case of mandatory 'condonable' (MC) modules, these must be taken but you can still progress or graduate even if you do not pass them. Please note that although Royal Holloway will keep changes to a minimum, changes to your degree course may be made where reasonable and necessary due to unexpected events. For example, where requirements of relevant Professional, Statutory or Regulatory Bodies have changed and course requirements must change accordingly, or where changes are deemed necessary on the basis of student feedback and/or the advice of external advisors, to enhance academic provision.

3.2 Optional modules

In addition to mandatory modules, there will be a number of optional modules available during the course of your degree. Although Royal Holloway will keep changes to a minimum, new options may be offered, or existing ones may be withdrawn. For example, where reasonable and necessary due to unexpected events, where requirements of relevant Professional, Statutory or Regulatory Bodies (PSRBs) have changed and course requirements must change accordingly, or where changes are deemed necessary on the basis of student feedback and/or the advice of External Advisors, to enhance academic provision. There may be additional requirements around option selection; please contact the Department for further information.

You must choose options to the value of 30 credits in your second term.

Section 4 - Progressing through each year of your degree course

For further information on the progression and award requirements for your degree, please refer to Royal Holloway's [Academic Regulations](#).

Progression throughout the year/s is monitored through performance in summative or formative coursework assignments. Please note that if you hold a Student Visa and you choose to leave (or are required to leave because of non-progression) or complete early (before the course end date stated on your CAS), then this will be reported to UKVI.

All postgraduate taught students are required to take and pass the non-credit bearing Moodle-based Academic Integrity module SS1001 in order to be awarded. The pass mark for the module assessment is stated in the on-line Academic Integrity Moodle module. Students may attempt the assessment as often as they wish with no penalties or capping. Students who otherwise meet the requirements for award as stipulated in the [Academic Taught Regulations](#) but fail to pass the Moodle-based Academic Integrity module will not be awarded.

Students will be required to take all taught modules (120 credits) and complete the assessments in their first year. Student will then complete a placement year and submit their project and placement report (IY5510) in the second year. Any students who fail to secure a placement in time will be moved to the MSc Information and Cyber Security (3887) and submit their project at the end of the first year.

Section 5 – Educational aims of the course

The aims of this course are to:

- Provide a systematic understanding of the technical, legal, commercial and social aspects of information security supported by research staff and recognised security experts from industry.
- Equip students with a systematic comprehension of current strategies, methodologies and techniques in information security.
- Enable students to identify the main security issues in the development of digital business activities.
- Allow students to critically review the current problems in information security and their countermeasures.
- Provide a strong foundation for a professional career as a security expert in business or commerce.

Section 6 - Course learning outcomes

In general terms, the courses provide opportunities for students to develop and demonstrate the following learning outcomes. (*Categories – Knowledge and understanding (K), Skills and other attributes (S), and Transferable skills (*)*)

Course learning outcome	Stage 1/Term 1	Stage 2/Term 2	Stage 3/Term 3
1: Acquire information security knowledge and skills and apply them to develop, innovate and evaluate solutions to contemporary security challenges.	2: Critically discuss the essential concepts, methods, and approaches in information security. 3: Appraise computer systems, networks, architectures, and processes to identify potential security risks.	4: Articulate the technical, legal, commercial, and social issues that need to be addressed when assessing information security needs 5: Develop and apply countermeasures for new security issues as they arise.	6: Reflect in writing and speech the results of research clearly and systematically in a manner comprehensible to a non-expert. 7: Demonstrate independent learning and scholarship necessary for continuing professional development.

Section 7 - Teaching, learning and assessment

Teaching and learning on your course is closely informed by the active research of staff, particularly in the areas of Information Security. In general terms, the course provides an opportunity for you to develop and demonstrate the learning outcomes detailed herein.

Teaching and learning is mostly by means of lectures; seminars, study groups and guided independent study. Assessment of knowledge and understanding is typically by formal examinations, coursework, oral presentations and the dissertation or long essay. In addition, students may be involved in workshops and may produce various forms of work.

Contact hours come in various forms and may take the form of time spent with a member of staff in a lecture or seminar with other students. Contact hours may also be laboratory or, studio-based sessions, project supervision with a member of staff, or discussion through a virtual learning environment (VLE). These contact hours may be with a lecturer or teaching assistant, but they may also be with a technician, or specialist support staff.

The way in which each module on your degree course is assessed will also vary. Assessments designated as 'summative' will receive a mark which will count towards your overall mark for the module, and potentially your degree classification, depending on your year of study. On successful completion of the module, you will gain the credits listed.

More detailed information on modules, including teaching and learning methods, and methods of assessment, can be found via the online [Module Catalogue](#). The accuracy of the information contained in this document is reviewed regularly by the university and may also be checked routinely by external agencies.

Section 8 – Additional costs	
Costs incurred during your year in industry will vary depending on the nature and location of the placement. For further information please contact the Department of Electronic Engineering.	
These estimated costs relate to studying this particular degree course at Royal Holloway. General costs such as accommodation, food, books and other learning materials and printing etc., have not been included, but further information is available on our website.	

Section 9 – Indicators of quality and standards	
QAA Framework for Higher Education Qualifications (FHEQ) Level	7
Your course is designed in accordance with the FHEQ to ensure your qualification is awarded on the basis of nationally established standards of achievement, for both outcomes and attainment. The qualification descriptors within the FHEQ set out the generic outcomes and attributes expected for the award of individual qualifications. The qualification descriptors contained in the FHEQ exemplify the outcomes and attributes expected of learning that results in the award of higher education qualifications. These outcomes represent the integration of various learning experiences resulting from designated and coherent courses of study.	
QAA Subject benchmark statement(s)	http://www.qaa.ac.uk/quality-code/subject-benchmark-statements
Subject benchmark statements provide a means for the academic community to describe the nature and characteristics of courses in a specific subject or subject area. They also represent general expectations about standards for the award of qualifications at a given level in terms of the attributes and capabilities that those possessing qualifications should have demonstrated.	

Section 10– Intermediate exit awards (where available)		
You may be eligible for an intermediate exit award if you complete part of the course as detailed in this document. Any additional criteria (e.g. mandatory modules, credit requirements) for intermediate awards is outlined in the sections below.		
Award	Criteria	Awarding body
PG Diploma	Passes in at least 120 credits, with fails of between 40% to 49% for up to 40 credits condonable (with the exception of any course specific requirements).	Royal Holloway and Bedford New College

PG Certificate	Passes in at least 60 credits with no condonable fails	Royal Holloway and Bedford New College
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