MSc CYBERSECURITY AND MACHINE LEARNING (SEPTEMBER START)   **57I10SB1**

Duration: 12 months full-time (MSc); 9 months full-time (Pg Dip); 4 months full-time (PgCert).

Content: All candidates shall be required to attend the following designated programme of courses:

Stage 1 (September)

All students must take the following courses:

PD5006 Getting Started at the University of Aberdeen (0 credit points)
CS5062 Machine Learning (15 credit points)

Plus one of the following courses:

CS502L Cybersecurity Fundamentals (15 credit points)
CS502B Security in Emerging Networks (15 credit points)

Plus one of the following courses:

CS502C Enterprise Security Architecture (15 credit points)
CS502M Security Analytics with Artificial Intelligence (15 credit points)

Plus one of the following courses:

CS5063 Evolution of AI Systems
CS5079 Applied Artificial Intelligence

Stage 2 (January)

One of the following courses:

CS552E Digital Forensics and Incident Management (15 credit points)
CS552P Blockchain and Smart Contracts (15 credit points)

Plus one of the following courses:

CS551J Knowledge Representation and Reasoning (15 credit points)
CS551K Software Agents and Multi-Agent Systems (15 credit points)

Plus one of the following courses:

CS552G Ethical Hacking and Web Security (15 credit points)
CS552H Secure Software Design and Development (15 credit points)

Plus one of the following courses:

CS551H Natural Language Generation (15 credit points)
CS552J Data Mining with Deep Learning (15 credit points)

Stage 3 (Summer)

CS592A Project in Cybersecurity (60 credit points)

Assessment: By course work, by written examination or by a combination of these as prescribed for each course. The project will be assessed by project presentation, implementation and by a dissertation. The degree of MSc shall not be awarded to a candidate who fails to complete CGS grade of D3 or above in the project, irrespective of their performance in other courses.