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| **Modules** | **Description** | **Projects** |
| *Object Orientated Programming 1* | Implementing (OOP) in C# which includes abstraction, encapsulation, inheritance and Polymorphism. Meanwhile programs are organised around objects and data rather than actions and logic | ***An OOP C# Software application to create and schedule large scale events such as festivals, conferences, ceremonies, weddings, formal parties, concerts, or conventions*** |
| *Computer Networks and Communications 1* | A comprehensive and detailed study of current Computer Networks and Communications technology. It includes: a study of network techniques, switching and multiple access; high speed local area networks; network protocols, including data link, network, transport and application layers | ***Examination*** |
| *Database Design and Organisation* | A study of how the data elements interrelates and determining what data must be stored. | * **Examination** * **A literature review of the general fundamentals of NOSQL and mongo DB** |
| *Aspects of Cybersecurity* | A study of the collection of tools, policies, security concepts, security safeguards, guidelines, risk management approaches, actions, training, best practices, assurance and technologies that can be used to protect the cyber environment and organization and user's assets. | **A Virtualised Penetration test similar to an industries Internal networks, reporting the Vulnerabilities, sourcing the countermeasures and apply practices and response and mitigation measures designed to protect networks** |
| *Individual Project 1* | A study of research methods that combines theoretical and historical concepts with hands on practical lab sessions using both qualitative and quantitative techniques to put theory into practice | ***A literature review of the SQL injection and the nefariousness on Banking Systems*** |
| *Individual Project 2* | A study and continuation of *Individual Project 1* | **A literature review based on evaluating the Security of Bluetooth Technologies** |
| *Operating Systems and Security* | A study of the processe that pertain ensuring Operating Systems integrity, confidentiality and availability | * ***Mounting windows and Linux shares recursively*** * ***A hamming Code Script in C# to handle from error detection the receiver side*** |
| *Smart Programming* | A study of the data flow programming techniques that is used to interface with the internet of things, understanding how it interrelates with sensors and wireless Technology | * **A literature-based review of Bluetooth Programming and its evasiveness with python Tkinter Libraries** * **A python script that maps and reads input from an Xbox controller to steer a Bluetooth remote-controller Car** |
| *Professional Project Development and Delivery* | A study that involves completing a team-based development project or other technical investigation project | * **A literature-based review that compares PowerShell Offensive security to the traditional methodology of pen testing** |
| *Computer Networking and Communications 2* | A continuation of *Computer Networks and Communications 1* | * **A literature-based review of the Introduction to SNMP and Network Management** * **A practical evaluation of the usefulness of intrusion and prevention system** |
| *Ethical Hacking 2* | A study of Advanced techniques used by Ethical Hackers to examine the security of web applications and mobile devices | * **Conducted a virtualized web application evaluation** |
| *Honours Project Scooping and proposal* | A study of the planning, project scooping concepts to encourage self-managed learning, planning and professional competence | **A project proposal documentation that addresses the aims, objectives of the Honours Project** |
| *Digital Forensics* | A study of forensic investigation computers and mobile phone networks. Starting with an understanding of the underlying communications technologies, go on to develop a comprehensive, systematic approach to the discovery and examination of evidence from both end-user devices | **Investigating and analysing digital devices in relation to a computer. This pertains recovering data across a local and wide area network (John Doe Case)** |
| *Software Development for Mobile Devices* | A study of the critical understanding of development practices that are used to develop a range of Mobile Devices | **A java android Script to localise Bluetooth Devices and automate the recording of Attendance during the start of lectures** |
| *Ethical Hacking 3* | A study of broad subject area of binary auditing. Gain an understanding of the countermeasures that a company can take to minimise the effect of vulnerabilities. | **Developed a tutorial to illustrate a Buffer Overflow in a Windows Based Application:**   * **No DEP (Data Execution Policy)** * **With DEP enabled in “Opt Out “mode** |
| *Penetration Testing 1* | A study of how to examine the methodological framework for security testing via ethical hacking of computer systems and networks including countermeasures to flaws found by penetration testing. | **A client orientated penetration test with standardised Methodologies such as : OWASP , CREST , PTES .etc** |
| *Honours Project Execution* | Undertaking a practical and development work for a major, in-dept individual project in aspect of the program that was studied | **A full-scale Bluetooth System written in python that will record student Devices as there identified momentarily, using Database Api’s for storage purposes** |
| *Honours Project Dissertation* | Involves providing an in-depth individual project in the form of a dissertation in aspect of the program that was studied | **Dissertation report** |