



Minor School	Data Mining	Control Systems	Web Media Design
Brief	This minor provides students with advance knowledge on how to access data and specialist skills on how to manage and interpret data to extract meaningful information that can support strategic objectives.	This minor provides the engineering students with a comprehensive set of theoretical, practical and technical skills in control systems for industrial applications.	This minor develops work-ready graduates, who are technically competent, and have a sound understanding of concepts in Web Media that enable them to be adaptable and to solve real world problems using web-based designs, strategies and technologies.
Graduates	<p>Graduates with this minor will be able to:</p> <ul style="list-style-type: none"> • Demonstrate advance knowledge of database systems and where such systems fall within an IT infrastructure in an organization. • Design, develop and query databases. • Interpret and evaluate obtained numerical and graphical data to recommend the best model to be used for prediction purposes. 	<p>The qualification will provide students with:</p> <ul style="list-style-type: none"> • Theoretical and practical skills to solve control engineering problems and design engineering systems in the area of electronic circuits, instrumentation and control for the industry. • Skills necessary for effective communication, analysis, teamwork, documentation and evaluation of engineering control systems. 	<p>The qualification will provide students with:</p> <p>A. <u>Knowledge – Theoretical Understanding</u></p> <ul style="list-style-type: none"> • A1 - Demonstrate a critical knowledge of the aesthetic, strategic, and technological aspects of digital media content and products. • A2 - Demonstrate broad knowledge of local, regional and global issues associated with Internet-based communication. <p>B. <u>Knowledge Practical Application: subject/discipline specific</u></p> <ul style="list-style-type: none"> • B1 - Master written, oral and visual skills relevant to the Web in English. • B2 - Use basic and some specialist digital media technologies and strategies in appropriate professional contexts. • B3 - Think critically, be innovative and engage in dialogue on issues relevant to the modern Web landscape. <p>C. <u>Skills – Employability</u></p> <ul style="list-style-type: none"> • Practice as a professional using 21st century skills
Courses	<ul style="list-style-type: none"> • IT6010 Maths for Computing • IT6005 Database Systems 1 • IT7005 Database Systems • IT8416 Data Mining 	<ul style="list-style-type: none"> • EN6080 AC circuit theory • EN7061 Analogue electronic circuits • EN7230 Instrumentation and control • EN8231 Control systems design 	<ul style="list-style-type: none"> • WM6002 Internet & Multimedia 1 (Interactive 2D Animation) • WM6003 Web Design 1 • WM7002 3D Modeling & Animation 1 • WM8005 Advanced Design for the Web (WM6003 pre-requisite)
Students	From all Programmes, except IT and double major students.	Only Mechanical Engineering students.	From all Programmes, except Web Media and double major students.
Requirements	<ul style="list-style-type: none"> • Passing IT6010 Maths for Computing • Limited seats available selection based on the School approval 	<ul style="list-style-type: none"> • Completion of the 1st year program courses • GPA 3 and above • Limited seats available selection based on the School approval 	<ul style="list-style-type: none"> • Limited seats available selection based on the School approval