



**Westwood Dynamic Limited**

**Course Syllabus/Content**

**WD-UK Level 7 (UK Qualifications Framework - Information Technology)**

**(Credits 120)**

<b>Revised Modules</b>	<b>Contact hours (Full-Time)</b>	<b>Contact hours (Part-Time)</b>	<b>Assessment</b>	<b>Teaching Methods</b>	<b>Passing Mark</b>
Advanced Artificial Intelligence	50	50	Assignment Based	Classroom Lectures & Online	50%
Cybersecurity Leadership	50	50	Assignment Based	Classroom Lectures & Online	50%
IT Service Management Excellence	50	50	Assignment Based	Classroom Lectures & Online	50%
Strategic IT Management	50	50	Assignment Based	Classroom Lectures & Online	50%
Enterprise Architecture	50	50	Assignment Based	Classroom Lectures & Online	50%

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Blockchain Technologies	50	50	Assignment Based	Classroom Lectures & Online	50%
Advanced Data Science	50	50	Assignment Based	Classroom Lectures & Online	50%
IT Innovation and Entrepreneurship	50	50	Assignment Based	Classroom Lectures & Online	50%
Digital Transformation Strategies	50	50	Assignment Based	Classroom Lectures & Online	50%
IT Ethics and Compliance	50	50	Assignment Based	Classroom Lectures & Online	50%

## Westwood Dynamic Limited

<b>Subject</b>	<b>Advanced Artificial Intelligence</b>								
<b>Aims and Objectives</b>	<p>The aim of this course is to provide students with advanced knowledge and skills in artificial intelligence (AI), focusing on cutting-edge techniques and applications. Through theoretical study and hands-on projects, students will explore advanced AI algorithms, methodologies, and technologies, enabling them to design, develop, and deploy AI systems for complex real-world problems. The objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. To introduce students to advanced concepts and principles of artificial intelligence, including deep learning, reinforcement learning, and natural language processing.</li> <li>2. To explore state-of-the-art AI algorithms and techniques used in various domains, such as computer vision, robotics, and natural language understanding.</li> <li>3. To develop students' proficiency in designing, implementing, and evaluating advanced AI models and systems.</li> <li>4. To enable students to apply advanced AI techniques to solve complex real-world problems and challenges.</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of artificial intelligence concepts, including deep learning, reinforcement learning, and neural network architectures.</li> <li>2. Analyze and compare state-of-the-art AI algorithms and techniques across different application domains.</li> <li>3. Design, implement, and evaluate advanced AI models and systems for specific tasks, such as image classification, language translation, and robotic control.</li> <li>4. Apply advanced AI techniques to solve complex real-world problems and challenges in various domains, including healthcare, finance, and autonomous systems.</li> <li>5. Critically evaluate AI algorithms and methodologies, identify strengths and limitations, and propose improvements and optimizations.</li> <li>6. Collaborate effectively with peers and experts in multidisciplinary AI teams to develop and deploy AI solutions.</li> </ol>								
<b>Credit Points:</b>	12 credit points								
<b>Assessment</b>	<ul style="list-style-type: none"> <li>▪ Assignment based</li> </ul>								
<b>Teaching Mode (Full-Time)</b>	<table style="width: 100%; border: none;"> <tr> <td style="padding-right: 20px;">Lectures:</td> <td>60 hours</td> </tr> <tr> <td>Tutorials/workshop:</td> <td>30 hours</td> </tr> <tr> <td>Private Study:</td> <td>30 hours</td> </tr> <tr> <td><b>Total:</b></td> <td><b>120 hours</b></td> </tr> </table>	Lectures:	60 hours	Tutorials/workshop:	30 hours	Private Study:	30 hours	<b>Total:</b>	<b>120 hours</b>
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<b>Subject</b>	<b>Cybersecurity Leadership</b>
<b>Aims and Objectives</b>	<p>The aim of this course is to equip students with advanced knowledge and skills in cybersecurity leadership, enabling them to effectively lead and manage cybersecurity initiatives within organizations. Through theoretical study, case studies, and practical exercises, students will explore leadership strategies, governance frameworks, and best practices for cybersecurity management. The objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. To introduce students to the principles and concepts of cybersecurity leadership and its importance in organizational cybersecurity governance.</li> <li>2. To explore various leadership styles, strategies, and frameworks applicable to cybersecurity management.</li> <li>3. To develop students' ability to assess cybersecurity risks, develop cybersecurity strategies, and lead cybersecurity programs.</li> <li>4. To enable students to foster a cybersecurity-aware culture within organizations and promote cybersecurity awareness among stakeholders.</li> </ol>
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of cybersecurity leadership principles, concepts, and best practices.</li> <li>2. Analyze and apply different leadership styles, strategies, and frameworks to cybersecurity management.</li> <li>3. Assess cybersecurity risks and develop effective cybersecurity strategies and programs for organizations.</li> <li>4. Lead and manage cybersecurity initiatives, projects, and teams effectively.</li> <li>5. Foster a cybersecurity-aware culture within organizations and promote cybersecurity awareness among stakeholders.</li> </ol>
<b>Credit Points:</b>	12 credit points
<b>Assessment</b>	<ul style="list-style-type: none"> <li>▪ Assignment based</li> </ul>
<b>Teaching Mode (Full-Time)</b>	<p>Lectures: 60 hours  Tutorials/workshop: 30 hours  Private Study: 30 hours  Total: 120 hours</p>

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<b>Subject</b>	<b>IT Service Management Excellence</b>								
<b>Aims and Objectives</b>	<p>The aim of this course is to provide students with advanced knowledge and skills in IT service management (ITSM), focusing on achieving excellence in delivering high-quality IT services to organizations. Through theoretical study, case studies, and practical exercises, students will explore ITSM frameworks, methodologies, and best practices, enabling them to lead and manage IT service delivery initiatives effectively. The objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. To introduce students to the principles and concepts of IT service management and its significance in supporting organizational goals and objectives.</li> <li>2. To explore various ITSM frameworks, methodologies, and standards, such as ITIL, COBIT, and ISO/IEC 20000, and their application in real-world scenarios.</li> <li>3. To develop students' ability to design, implement, and optimize IT service management processes and practices to meet organizational needs.</li> <li>4. To enable students to lead and manage IT service delivery initiatives, ensuring alignment with business requirements and continuous improvement.</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of IT service management principles, concepts, and frameworks.</li> <li>2. Analyze and apply various ITSM frameworks, methodologies, and standards to real-world scenarios.</li> <li>3. Design, implement, and optimize IT service management processes and practices to meet organizational needs and objectives.</li> <li>4. Lead and manage IT service delivery initiatives effectively, ensuring alignment with business requirements and continuous improvement.</li> <li>5. Identify and analyze complex IT service management challenges and implement solutions to address them.</li> </ol>								
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<b>Subject</b>	<b>Strategic IT Management</b>								
<b>Aims and Objectives</b>	<p>The aim of this course is to provide students with advanced knowledge and skills in strategic information technology (IT) management, focusing on aligning IT with organizational goals and driving business value through technology. Through theoretical study, case studies, and practical exercises, students will explore strategic IT planning, governance, and leadership, enabling them to effectively lead and manage IT initiatives within organizations. The objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. To introduce students to the principles and concepts of strategic IT management and its importance in achieving organizational objectives.</li> <li>2. To explore various strategic planning frameworks, methodologies, and tools for IT decision-making and governance.</li> <li>3. To develop students' ability to align IT strategy with business goals and objectives and drive innovation and digital transformation.</li> <li>4. To enable students to lead and manage strategic IT initiatives, ensuring alignment with organizational priorities and delivering business value.</li> <li>5. To foster critical thinking and problem-solving skills in analyzing complex IT challenges and developing strategic solutions.</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of strategic IT management principles, concepts, and frameworks.</li> <li>2. Analyze and apply various strategic planning frameworks, methodologies, and tools to IT decision-making and governance.</li> <li>3. Align IT strategy with business goals and objectives and develop strategic IT plans to drive innovation and digital transformation.</li> <li>4. Lead and manage strategic IT initiatives effectively, ensuring alignment with organizational priorities and delivering business value.</li> <li>5. Identify and analyze complex IT challenges and develop strategic solutions to address them.</li> <li>6. Communicate IT strategy, initiatives, and outcomes clearly and persuasively to technical and non-technical stakeholders.</li> </ol>								
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<b>Subject</b>	<b>Enterprise Architecture</b>								
<b>Aims and Objectives</b>	<p>The aim of this course is to provide students with advanced knowledge and skills in enterprise architecture (EA), focusing on designing and implementing holistic and strategic IT solutions that align with organizational goals and objectives. Through theoretical study, case studies, and practical exercises, students will explore EA frameworks, methodologies, and best practices, enabling them to lead and manage EA initiatives within organizations effectively. The objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. To introduce students to the principles and concepts of enterprise architecture and its importance in aligning IT with business strategy and goals.</li> <li>2. To explore various EA frameworks, methodologies, and standards, such as TOGAF, Zachman, and ArchiMate, and their application in real-world scenarios.</li> <li>3. To develop students' ability to analyze and model complex enterprise systems and architectures to support business transformation and innovation.</li> <li>4. To enable students to design, implement, and manage enterprise-wide IT architectures that facilitate agility, scalability, and interoperability.</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of enterprise architecture principles, concepts, and frameworks.</li> <li>2. Analyze and apply various EA frameworks, methodologies, and standards to real-world scenarios and organizational contexts.</li> <li>3. Model and document enterprise architectures, including business architecture, information architecture, application architecture, and technology architecture.</li> <li>4. Design and implement enterprise-wide IT architectures that support business agility, scalability, and interoperability.</li> <li>5. Lead and manage EA initiatives effectively, ensuring alignment with organizational goals and delivering business value.</li> </ol>								
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<b>Subject</b>	<b>Blockchain Technologies</b>								
<b>Aims and Objectives</b>	<p>The aim of this course is to provide students with advanced knowledge and skills in blockchain technologies, focusing on understanding the principles, applications, and implications of blockchain in various industries. Through theoretical study, hands-on projects, and case studies, students will explore blockchain architecture, consensus mechanisms, smart contracts, and decentralized applications (DApps), enabling them to design, develop, and deploy blockchain solutions effectively. The objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. To introduce students to the principles and concepts of blockchain technologies and their significance in decentralized systems and applications.</li> <li>2. To explore various blockchain architectures, consensus mechanisms, and cryptographic techniques used in blockchain networks.</li> <li>3. To develop students' ability to design, develop, and deploy blockchain solutions for specific use cases and applications.</li> <li>4. To enable students to analyze and evaluate the potential benefits, challenges, and risks associated with blockchain adoption in various industries.</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of blockchain principles, concepts, and architectures.</li> <li>2. Analyze and compare various blockchain architectures, consensus mechanisms, and cryptographic techniques.</li> <li>3. Design, develop, and deploy blockchain solutions using appropriate platforms and programming languages.</li> <li>4. Evaluate the potential benefits, challenges, and risks of blockchain adoption in specific industries and applications.</li> <li>1. 5. Identify and address technical and business requirements in designing blockchain solutions.</li> </ol>								
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<b>Subject</b>	<b>Advanced Data Science</b>								
<b>Aims and Objectives</b>	<p>The aim of this course is to provide students with advanced knowledge and skills in data science, focusing on cutting-edge techniques and methodologies for extracting insights and value from complex datasets. Through theoretical study, hands-on projects, and case studies, students will explore advanced statistical analysis, machine learning algorithms, and big data technologies, enabling them to tackle real-world data science challenges effectively. The objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. To introduce students to advanced concepts and techniques in data science, including advanced statistical analysis, machine learning, and deep learning.</li> <li>2. To explore state-of-the-art machine learning algorithms and methodologies for supervised, unsupervised, and reinforcement learning tasks.</li> <li>3. To develop students' proficiency in handling and analyzing large-scale datasets using big data technologies and platforms.</li> <li>4. To enable students to apply advanced data science techniques to solve complex real-world problems and extract actionable insights.</li> <li>5. To foster critical thinking and problem-solving skills in designing and evaluating data science solutions and methodologies.</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of data science principles, methodologies, and techniques.</li> <li>2. Apply advanced statistical analysis techniques to extract insights from complex datasets.</li> <li>3. Implement and evaluate state-of-the-art machine learning algorithms for supervised, unsupervised, and reinforcement learning tasks.</li> <li>4. Utilize big data technologies and platforms for handling and analyzing large-scale datasets effectively.</li> <li>5. Develop and deploy data science solutions to solve complex real-world problems and extract actionable insights.</li> </ol>								
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<b>Subject</b>	<b>IT Innovation and Entrepreneurship</b>								
<b>Aims and Objectives</b>	<p>The aim of this course is to equip students with advanced knowledge and skills in IT innovation and entrepreneurship, focusing on fostering creativity, identifying opportunities, and building successful technology-driven ventures. Through theoretical study, case studies, and practical exercises, students will explore innovation frameworks, entrepreneurship principles, and startup strategies, enabling them to develop innovative IT solutions and launch their own ventures effectively. The objectives of the course include:</p> <ol style="list-style-type: none"> <li>1. To introduce students to the principles and concepts of IT innovation and entrepreneurship and their significance in driving economic growth and societal impact.</li> <li>2. To explore various innovation frameworks, methodologies, and tools for generating and evaluating new ideas and technologies.</li> <li>3. To develop students' ability to identify market opportunities, assess business feasibility, and develop value propositions for IT ventures.</li> <li>4. To enable students to apply entrepreneurial principles and strategies in launching and growing technology-driven ventures.</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of IT innovation and entrepreneurship principles, concepts, and frameworks.</li> <li>2. Generate and evaluate new ideas and technologies using various innovation methodologies and tools.</li> <li>3. Identify market opportunities, assess business feasibility, and develop value propositions for technology-driven ventures.</li> <li>4. Apply entrepreneurial principles and strategies in launching and growing IT ventures, including lean startup and design thinking approaches.</li> <li>5. Develop innovative IT solutions and business models that address market needs and create value for customers.</li> </ol>								
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<b>Subject</b>	<b>Digital Transformation Strategies</b>								
<b>Aims and Objectives</b>	<ol style="list-style-type: none"> <li>1. To introduce students to the principles and concepts of digital transformation and its significance in reshaping organizations and industries.</li> <li>2. To explore various digital transformation frameworks, methodologies, and strategies for leveraging technology to drive business value and innovation.</li> <li>3. To develop students' ability to assess organizational readiness for digital transformation and develop strategic roadmaps for change.</li> <li>4. To enable students to lead and manage digital transformation initiatives, ensuring alignment with organizational goals and delivering measurable outcomes.</li> <li>5. To foster critical thinking and problem-solving skills in analyzing complex organizational challenges and designing innovative digital solutions.</li> <li>6. To enhance students' communication and collaboration skills for effectively engaging with stakeholders and fostering a culture of digital innovation.</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of digital transformation principles, concepts, and frameworks.</li> <li>2. Analyze and apply various digital transformation frameworks, methodologies, and strategies to real-world organizational contexts.</li> <li>3. Assess organizational readiness for digital transformation and develop strategic roadmaps for change.</li> <li>4. Lead and manage digital transformation initiatives effectively, ensuring alignment with organizational goals and delivering measurable outcomes.</li> <li>5. Identify and analyze complex organizational challenges and design innovative digital solutions to address them.</li> <li>6. Communicate digital transformation strategies, initiatives, and outcomes clearly and persuasively to technical and non-technical stakeholders.</li> </ol>								
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<b>Subject</b>	<b>IT Ethics and Compliance</b>								
<b>Aims and Objectives</b>	<ol style="list-style-type: none"> <li>1. To introduce students to the principles and concepts of IT ethics and compliance and their significance in ensuring responsible and ethical behavior in the IT industry.</li> <li>2. To explore various ethical frameworks and theories applicable to IT contexts and develop students' ability to apply ethical reasoning to real-world scenarios.</li> <li>3. To familiarize students with legal and regulatory requirements governing IT practices, including data privacy, cybersecurity, intellectual property, and accessibility.</li> <li>4. To enable students to identify and analyze ethical dilemmas and conflicts of interest in IT decision-making and develop strategies for ethical resolution.</li> <li>5. To foster critical thinking and problem-solving skills in evaluating ethical issues and making informed decisions in complex IT environments</li> </ol>								
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Demonstrate advanced understanding of IT ethics principles, concepts, and frameworks.</li> <li>2. Apply ethical reasoning and decision-making skills to analyze and resolve ethical dilemmas in IT contexts.</li> <li>3. Identify and assess legal and regulatory requirements governing IT practices, including data privacy, cybersecurity, intellectual property, and accessibility.</li> <li>4. Develop strategies for ensuring compliance with relevant laws, regulations, and standards in IT practices.</li> <li>5. Evaluate the ethical implications of emerging technologies and IT innovations and develop strategies for ethical adoption and use.</li> <li>6. Communicate ethical principles and guidelines effectively to stakeholders, including executives, employees, and clients.</li> <li>7. Collaborate with peers and experts in promoting a culture of integrity and ethical conduct within organizations</li> </ol>								
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