



# MODULE DESCRIPTION FORM



Module Information			
Module Title	<b>Computer Technology</b>		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	AI1103		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	
Administering Department	Artificial Intelligence	College	Computer Science and Information Technology
Module Leader	Karar Sadiq	e-mail	<a href="mailto:karar.sadeq@uowa.edu.iq">karar.sadeq@uowa.edu.iq</a>
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	M.Sc.
Module Tutor	Karar Sadiq	e-mail	<a href="mailto:karar.sadeq@uowa.edu.iq">karar.sadeq@uowa.edu.iq</a>
Peer Reviewer Name	Ali Mahmoud Ali	e-mail	<a href="mailto:ali.mahmoud@uowa.edu.iq">ali.mahmoud@uowa.edu.iq</a>
Scientific Committee Approval Date	01/11/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

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 م.م. عابد محمود علي  
 مقر قسم الذكاء الاصطناعي  
 ٢٠٢٦ - ٢٠٢٥

Department Head Approval



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 ا.م.د. محمد علي لفاضل  
 العميد  
 ٢٠٢٥ - ٢٠٢٦

Dean of the College Approval

### Module Aims, Learning Outcomes and Indicative Contents

<b>Module Objectives</b>	<ul style="list-style-type: none"> <li>- Provide a basic knowledge of computer hardware and software</li> <li>- Introduce the business areas to which computers may be applied.</li> <li>- Provide an introduction to business organization and information systems.</li> <li>- Develop the skills in network &amp; communication, which play an important part in business computing and information processing</li> </ul>
<b>Module Learning Outcomes</b>	<ul style="list-style-type: none"> <li>-The student should understand the architecture of any IT systems.</li> <li>-The student should understand the parts of hardware.</li> <li>-The student should understand the system software.</li> <li>-The student should understand the architecture of networks, protocols and communications devices.</li> </ul>
<b>Indicative Contents</b>	<p>Data Conversion</p> <ul style="list-style-type: none"> <li>· D/A converters</li> <li>· A/D converters</li> <li>· Sample and Hold circuits</li> </ul> <p>Digital Component Operations</p> <ul style="list-style-type: none"> <li>· Multiplexing</li> <li>· Data storage</li> <li>· Integrated Circuits</li> </ul> <p>Digital Technology</p> <ul style="list-style-type: none"> <li>· Memory Technology</li> <li>· Circuit Board Technology</li> <li>· Nano-Technology</li> </ul>

### Learning and Teaching Strategies

<b>Strategies</b>	<ul style="list-style-type: none"> <li>- The student should use utilities in the lab to apply scientific experiment</li> <li>- The ability to execute the applications software.</li> </ul>
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### Student Workload (SWL)

<b>Structured SWL (h/sem)</b>	60	<b>Structured SWL (h/w)</b>	4
<b>Unstructured SWL (h/sem)</b>	65	<b>Unstructured SWL (h/w)</b>	4.3
<b>Total SWL (h/sem)</b>	<b>125</b>		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	5	10% (10)	2,4,6,9,11	LO #1, LO #2, LO #3
	Assignments	5	10% (10)	3,5,7,10,12	LO #2, LO #4,
	Projects / Lab.	1	10% (10)	Continuous	All Learning Outcomes (LO #1 – LO #4)
	Report	1	10% (10)	13	LO #4
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1, LO #2, LO #3
	Final Exam	3hr	50% (50)	16	All Learning Outcomes (LO #1 – LO #4)
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction of Computers and Programming
Week 2	Brief history of computer
Week 3	Generation of Computers & Computer hierarchy
Week 4	Basic Computer Components
Week 5	Computer function (fetch cycle, interrupt cycle, I/O function)
Week 6	Semiconductor main memory (RAM, ROM, CACHE)
Week 7	Midterm Exam
Week 8	Computer Software (application software)
Week 9	External & Internal memory
Week 10	Telecommunications system & Network
Week 11	Topology of a network and layering
Week 12	data representation
Week 13	Multimedia
Week 14	Computer Security
Week 15	All Topics
Week 16	Preparatory week before the final Exam

### Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
<b>Week 1</b>	Basic Computer Components
<b>Week 2</b>	Computer function (fetch cycle, interrupt cycle, I/O function)
<b>Week 3</b>	Computer function (fetch cycle, interrupt cycle, I/O function)
<b>Week 4</b>	Semiconductor main memory (RAM, ROM, CACHE)
<b>Week 5</b>	Computer Software (application software)
<b>Week 6</b>	Computer Software (application software)
<b>Week 7</b>	External & Internal memory
<b>Week 8</b>	External & Internal memory
<b>Week 9</b>	Telecommunications system & Network
<b>Week 10</b>	Topology of a network
<b>Week 11</b>	Topology of a network
<b>Week 12</b>	Layering model
<b>Week 13</b>	Layering model
<b>Week 14</b>	Protocols
<b>Week 15</b>	addressing communications

### Learning and Teaching Resources

	Text	Available in the Library?
<b>Required Texts</b>	Computer Organization and Architecture Designing for Performance (8th Edition).	No
<b>Recommended Texts</b>	Computing Essentials Making IT work for you 2017 by Timothy J. O'Leary.	No
<b>Websites</b>	<a href="https://www.geeksforgeeks.org/computer-science/">https://www.geeksforgeeks.org/computer-science/</a>	

## Grading Scheme

Group	Grade	Mark	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Excellent	90 - 100	Outstanding Performance
	<b>B</b> - Very Good	Very Good	80 - 89	Above average with some errors
	<b>C</b> - Good	Good	70 - 79	Sound work with notable errors
	<b>D</b> - Satisfactory	Fair / Average	60 - 69	Fair but with major shortcomings
	<b>E</b> - Sufficient	Pass / Acceptable	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	<b>FX</b> – Fail	Fail (Pending)	(45-49)	More work required but credit awarded
	<b>F</b> – Fail	Fail	(0-44)	Considerable amount of work required

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

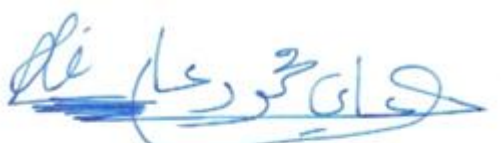


# MODULE DESCRIPTION FORM




Module Information			
Module Title	Democracy and human rights		Module Delivery
Module Type	S		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOWA005		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	1	Semester of Delivery	
Administering Department	Artificial Intelligence	College	Computer Science and Information Technology
Module Leader	Jassim Mohammed Alawi	e-mail	<a href="mailto:Jassim.mohamed.1412@gmail.com">Jassim.mohamed.1412@gmail.com</a>
Module Leader's Acad. Title	Assist Professor	Module Leader's Qualification	Msc
Module Tutor	Jassim Mohammed Alawi	e-mail	<a href="mailto:Jassim.mohamed.1412@gmail.com">Jassim.mohamed.1412@gmail.com</a>
Peer Reviewer Name	Ali Mahmoud Ali	e-mail	<a href="mailto:ali.mahmoud@uowa.edu.iq">ali.mahmoud@uowa.edu.iq</a>
Scientific Committee Approval Date	01/11/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

  
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 ٢٠٢٦ - ٢٠٢٥

Department Head Approval



  
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 العميد  
 ٢٠٢٦ - ٢٠٢٥

Dean of the College Approval

## Module Aims, Learning Outcomes and Indicative Contents

<b>Module Objectives</b>	<p>A. To teach students the fundamentals of human rights and their laws.</p> <p>B. To familiarize students with rights and the most important issues and challenges they face.</p> <p>C. To define and understand concepts related to freedoms, including individual rights and personal liberties.</p> <p>D. To develop the ability to think critically about issues related to freedoms and individual rights.</p>
<b>Module Learning Outcomes</b>	<p>1. For students to understand the concept of rights, their laws, and their applications.</p> <p>2. For students to know how to participate in disseminating and implementing rights through real-world action.</p> <p>3. To be able to use rights as a means for peaceful coexistence among all members of society and all living beings.</p> <p>4. To be able to share these rights with others.</p> <p>5. To be able to analyze and define the concept of freedom and distinguish between different types of freedoms.</p> <p>6. To engage with freedom issues at the national and international levels and influence public opinion.</p>
<b>Indicative Contents</b>	<ol style="list-style-type: none"> <li>1. Fundamental and Non-Fundamental Rights and Freedoms</li> <li>2. Civil Rights and Freedoms</li> <li>3. Political Rights</li> <li>4. Human Rights and International Humanitarian Law</li> </ol>

## Learning and Teaching Strategies

### استراتيجيات التعلم والتعليم

<b>Strategies</b>	<ol style="list-style-type: none"> <li>1. Fundamental and Non-Fundamental Rights and Freedoms</li> <li>2. Civil Rights and Freedoms</li> <li>3. Political Rights</li> <li>4. Human Rights and International Humanitarian Law</li> </ol>
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## Student Workload (SWL)

<b>Structured SWL (h/sem)</b>	33	<b>Structured SWL (h/w)</b>	2
<b>Unstructured SWL (h/sem)</b>	17	<b>Unstructured SWL (h/w)</b>	1
<b>Total SWL (h/sem)</b>	<b>50</b>		

<b>Module Evaluation</b>					
تقييم المادة الدراسية					
		<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Formative assessment</b>	<b>Quizzes</b>	2	10% (10)	5 and 10	LO #1, #2 and #3, #4
	<b>Assignments</b>	2	10% (10)	2 and 12	LO #3, #4 and #5
	<b>Projects / Lab.</b>	-	-	-	-
	<b>Report</b>	1	10% (10)	13	LO #5, #5 and #6
<b>Summative assessment</b>	<b>Midterm Exam</b>	2hr	10% (10)	7	LO #1 - #6
	<b>Final Exam</b>	3hr	50% (50)	16	All
<b>Total assessment</b>			100% (100 Marks)		

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	The Concept and Characteristics of Democracy
<b>Week 2</b>	Direct Democracy
<b>Week 3</b>	Semi-Direct Democracy
<b>Week 4</b>	Indirect Democracy
<b>Week 5</b>	Pillars of Democracy
<b>Week 6</b>	Mechanisms of Democracy
<b>Week 7</b>	Definition of Human Rights
<b>Week 8</b>	Exam
<b>Week 9</b>	Fundamental and Non-Fundamental Rights
<b>Week 10</b>	Civil Rights
<b>Week 11</b>	Political Rights
<b>Week 12</b>	Economic, Social, and Cultural Rights
<b>Week 13</b>	Individual and Collective Rights and the New Category of Rights
<b>Week 14</b>	Human Rights and International Humanitarian Law
<b>Week 15</b>	Human Rights in Islam



Learning and Teaching Resources		
	Text	Available in the Library?
<b>Required Texts</b>	Diamond L. & M. F. Plattner, eds., (2009), Democracy. A Reader, Baltimore, Johns Hopkins University Press.	Yes
<b>Recommended Texts</b>	The concept of public freedoms and human rights, its historical, intellectual and philosophical framework, and its fundamental guarantees - 2010	No
<b>Websites</b>	<a href="https://www.ohchr.org/">https://www.ohchr.org/</a>	

Grading Scheme				
Group	Grade	Mark	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Excellent	90 - 100	Outstanding Performance
	<b>B</b> - Very Good	Very Good	80 - 89	Above average with some errors
	<b>C</b> - Good	Good	70 - 79	Sound work with notable errors
	<b>D</b> - Satisfactory	Fair / Average	60 - 69	Fair but with major shortcomings
	<b>E</b> - Sufficient	Pass / Acceptable	50 - 59	Work meets minimum criteria
<b>Fail Group (0 – 49)</b>	<b>FX</b> – Fail	Fail (Pending)	(45-49)	More work required but credit awarded
	<b>F</b> – Fail	Fail	(0-44)	Considerable amount of work required
<p><b>Note:</b> Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.</p>				



# MODULE DESCRIPTION FORM



Module Information			
Module Title	<b>English Language I</b>		Module Delivery
Module Type	S		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOWA105		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	1	Semester of Delivery	
Administering Department	Artificial Intelligence	College	Computer Science and Information Technology
Module Leader	Mahmood Jasim	e-mail	<a href="mailto:mahmood.jasim@uowa.edu.iq">mahmood.jasim@uowa.edu.iq</a>
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D
Module Tutor	Mahmood Jasim	e-mail	<a href="mailto:mahmood.jasim@uowa.edu.iq">mahmood.jasim@uowa.edu.iq</a>
Peer Reviewer Name	Ali Mahmoud Ali	e-mail	<a href="mailto:ali.mahmoud@uowa.edu.iq">ali.mahmoud@uowa.edu.iq</a>
Scientific Committee Approval Date	01/11/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

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 م.م. عابد محموديان  
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 ٢٠٢٦ - ٢٠٢٥



Department Head Approval

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 ا.م.د. هادي محمد عابد لافانسي  
 العميد  
 ٢٠٢٦ - ٢٠٢٥

Dean of the College Approval

## Module Aims, Learning Outcomes and Indicative Contents

<b>Module Objectives</b>	Enhance Language Proficiency: The course aims to enhance students' language proficiency in English, including their reading, writing, speaking, and listening skills. It focuses on improving grammar, vocabulary, pronunciation, and overall communication abilities
<b>Module Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Developing advanced reading comprehension skills and critical analysis of various texts.</li> <li>2. Enhancing writing skills across different genres and formats.</li> <li>3. Improving oral communication and presentation skills.</li> <li>4. Expanding language proficiency in English, including grammar, vocabulary, and pronunciation.</li> <li>5. Analyzing and interpreting literary works from diverse genres and periods.</li> <li>6. Conducting effective research and demonstrating information literacy.</li> <li>7. Cultivating critical thinking skills and forming well-supported opinions.</li> <li>8. Enhancing intercultural communication and understanding.</li> <li>9. Fostering creativity and imaginative expression through literature and writing.</li> <li>10. Cultivating a love for lifelong learning in the field of English.</li> </ol>
<b>Indicative Contents</b>	<p>Study of various literary genres, such as poetry, drama, and prose.</p> <p>Analysis of literary works from different periods and cultural contexts.</p> <p>Development of critical reading and interpretation skills.</p> <p>Exploration of language and linguistics, including grammar, syntax, and phonetics.</p> <p>Introduction to literary theories and their application in analyzing texts.</p> <p>Practice in academic writing, including essay composition and research skills.</p> <p>Development of oral communication and presentation skills.</p> <p>Examination of cultural and historical contexts that influence literature.</p> <p>Integration of technology and digital resources in language and literary studies.</p> <p>Opportunities for creative writing and expression.</p>

## Learning and Teaching Strategies

<b>Strategies</b>	<ol style="list-style-type: none"> <li>1. Reading and Text Analysis: Provide a variety of reading materials, including literary texts, articles, and authentic sources. Guide students in analyzing and interpreting texts, identifying main ideas, and extracting key information. Facilitate class discussions to promote comprehension and critical thinking.</li> <li>2. Writing Workshops and Peer Feedback: Conduct writing workshops where students can refine their writing skills and receive feedback from peers and the instructor. Incorporate writing exercises that focus on specific writing techniques and genres. Provide guidance and support in the writing process, including brainstorming, drafting, revising, and editing.</li> <li>3. Presentations and Public Speaking: Assign oral presentations on various topics to enhance students' public speaking skills. Provide guidelines and practice</li> </ol>
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	<p>opportunities for effective delivery, organization, and visual aids. Offer constructive feedback to help students improve their presentation skills.</p> <p>4. Grammar and Vocabulary Activities: Incorporate interactive grammar and vocabulary activities, such as exercises, games, and quizzes, to reinforce language skills. Provide explicit instruction on grammar rules and strategies for vocabulary acquisition. Encourage students to use new grammar and vocabulary in context.</p>
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<b>Student Workload (SWL)</b>			
<b>Structured SWL (h/sem)</b>	33	<b>Structured SWL (h/w)</b>	2
<b>Unstructured SWL (h/sem)</b>	17	<b>Unstructured SWL (h/w)</b>	1
<b>Total SWL (h/sem)</b>	<b>50</b>		

<b>Module Evaluation</b>					
		<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Formative assessment</b>	<b>Quizzes</b>	5	10% (10)	2,3,5,9,11	LO #1, LO #4, LO #5
	<b>Assignments</b>	4	10% (10)	4,6,8,10	LO #2, LO #6, LO #7, LO #9
	<b>Assig. in college.</b>	Continuous	10% (10)	Continuous	Not Applicable (N/A)
	<b>Report</b>	1	10% (10)	13	LO #5, LO #6, LO #8
<b>Summative assessment</b>	<b>Midterm Exam</b>	2hr	10% (10)	7	LO #1, LO #2, LO #4
	<b>Final Exam</b>	3hr	50% (50)	16	All Learning Outcomes (LO #1 – LO #10)
<b>Total assessment</b>			100% (100 Marks)		

## Delivery Plan (Weekly Syllabus)

	Material Covered
<b>Week 1</b>	<p>Hello</p> <p>Grammar spot (is, are, am)</p> <p>Possessive Pronouns</p> <p>Everyday English (conversation)</p> <p>Word order</p> <p>Sounds</p>
<b>Week 2</b>	<p>Your world</p> <p>Nationalities</p> <p>Grammar spot (abbreviations, completing a question, Checking the correct sentence)</p> <p>Complete a conversation</p>
<b>Week 3</b>	<p>All about you</p> <p>Grammar spot (Negatives, abbreviations, and short answers)</p> <p>Writing Personal information (profile)</p> <p>Listening to a conversation</p> <p>Social expressions and jobs</p>
<b>Week 4</b>	<p>Family and friends</p> <p>Objective Pronouns</p> <p>Possession (Possessive pronouns, Possessive S, Has and have)</p> <p>Grammar spot (Checking the correct sentence)</p> <p>Pronunciation</p>
<b>Week 5</b>	<p>The way I live</p> <p>Vocabulary: sports, food, and drinks</p> <p>Grammar spot: (positive, negative, adjectives, and articles: a/an)</p> <p>Listening and speaking</p> <p>Matching countries with nationalities</p>
<b>Week 6</b>	<p>Every day</p> <p>Writing (times)</p> <p>Grammar spot (present simple and its adverbs)</p> <p>Pronunciation (s)</p> <p>Vocabulary and speaking</p> <p>Prepositions</p>
<b>Week 7</b>	<p>Mid-term Exam</p>

<b>Week 8</b>	<p>My favorites/Where I live</p> <p>Grammar spot: Question words, positive, negative, question, and word order.</p> <p>Conversation: using this/ that</p> <p>Vocabulary: completing adjectives, synonyms and antonyms, Everyday English (places and activities).</p> <p>Writing a letter, a postcard and a paragraph. Everyday English: directions</p>
<b>Week 9</b>	<p>Times past</p> <p>Grammar spot: passive voice, past simple, questions, past tense adverbs, and question words.</p> <p>Reading and speaking: past form</p> <p>Vocabulary: Using have, do, go, and time expressions</p> <p>Listening and speaking: sport, leisure, seasons, and months.</p>
<b>Week 10</b>	<p>We had a great time</p> <p>Grammar spot: past tense: regular and irregular forms</p> <p>Pronunciation of /t/, /d/ and /id/</p> <p>Vocabulary: technical terms</p>
<b>Week 11</b>	<p>I can do that</p> <p>Grammar spot: can, adverbs (fast and well), Regular adverbs, and request and offer</p> <p>Pronunciation of can</p> <p>Vocabulary and speaking: adjectives, and everyday English</p>
<b>Week 12</b>	<p>Please and thank you</p> <p>Speaking: activities and places,</p> <p>Grammar spot: would like, some and any, always, and now and soon</p> <p>Reading and speaking: food names, and everyday English (signs all around)</p> <p>Vocabulary: Technical expressions</p>
<b>Week 13</b>	<p>Second Exam</p>
<b>Week 14</b>	<p>Here and now</p> <p>Vocabulary and listening: colors, opposite verbs, everyday English (sense terms)</p> <p>Grammar spot: present continuous</p>
<b>Week 15</b>	<p>It's time to go</p> <p>Writing: transport</p> <p>Grammar spot: going to and present continuous, and Question words</p> <p>Vocabulary revision, Everyday English (social expressions), and technical abbreviations.</p> <p>Pronunciation of two and three syllables</p>

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Headway Plus Beginner, by John and Liz Soars,2010	Yes
Recommended Texts	English Grammar in Use (Elementary), Raymond Murphy, Cambridge University Press	NO
Websites	<a href="https://www.bbc.co.uk/learningenglish">https://www.bbc.co.uk/learningenglish</a>	

Grading Scheme				
Group	Grade	Mark	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Excellent	90 - 100	Outstanding Performance
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<p><b>Note:</b> Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.</p>				




# MODULE DESCRIPTION FORM




Module Information			
Module Title	Introduction to Artificial Intelligence (AI)		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	AI1101		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	Artificial Intelligence	College	Computer Science and Information Technology
Module Leader	Ali Mahmoud Ali	e-mail	<a href="mailto:ali.mahmoud@uowa.edu.iq">ali.mahmoud@uowa.edu.iq</a>
Module Leader's Acad. Title	assistant lecturer	Module Leader's Qualification	M.Sc.
Module Tutor	Ali Mahmoud Ali	e-mail	<a href="mailto:ali.mahmoud@uowa.edu.iq">ali.mahmoud@uowa.edu.iq</a>
Peer Reviewer Name	Dr. Mahmood Jasim	e-mail	<a href="mailto:mahmood.jasim@uowa.edu.iq">mahmood.jasim@uowa.edu.iq</a>
Scientific Committee Approval Date	01/11/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

  
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 مقر قسم الذكاء الاصطناعي  
 ٢٠٢٦ - ٢٠٢٥

Department Head Approval



  
 ا.م.د. محمد علي لفاانسي  
 العميد  
 ٢٠٢٥ - ٢٠٢٦

Dean of the College Approval



## Module Aims, Learning Outcomes and Indicative Contents

<b>Module Objectives</b>	The aim of this module is to provide an introduction to Artificial Intelligence (AI) and its various applications. Students will gain a comprehensive understanding of the fundamental concepts, techniques, and algorithms used in AI, as well as the ethical considerations associated with its use. The module will also explore the impact of AI on society, economy, and various industries.
<b>Module Learning Outcomes</b>	By the end of this module, students are expected to: <ol style="list-style-type: none"> <li>1. Understand the basic concepts and principles of Artificial Intelligence.</li> <li>2. Gain knowledge of various AI techniques and algorithms.</li> <li>3. Develop an understanding of the ethical implications of AI.</li> <li>4. Analyze the impact of AI on different aspects of society and industry.</li> <li>5. Apply AI techniques to solve real-world problems.</li> </ol>
<b>Indicative Contents</b>	<p>Introduction to Artificial Intelligence  Definition, brief history, and scope of AI.  Different types of AI systems.</p> <p>Problem Solving and Search Algorithms  Problem formulation and representation.  Uninformed search algorithms (e.g., breadth-first search, depth-first)</p> <p>Machine Learning  Ethical and Social Implications</p>

## Learning and Teaching Strategies

<b>Strategies</b>	<p>Conceptual Understanding:  Hands-on Practice  Code Review and Feedback  Problem-Solving Exercises</p>
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<b>Student Workload (SWL)</b>			
<b>Structured SWL (h/sem)</b>	48	<b>Structured SWL (h/w)</b>	3
<b>Unstructured SWL (h/sem)</b>	102	<b>Unstructured SWL (h/w)</b>	6.8
<b>Total SWL (h/sem)</b>	<b>150</b>		

<b>Module Evaluation</b>					
		<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Formative assessment</b>	<b>Quizzes</b>	6	10% (10)	2,3,4,6,8,11	LO #1, LO #2
	<b>Assignments</b>	5	10% (10)	3,5,7,8,9	LO #2, LO #3, LO #4
	<b>Seminar.</b>	1	10% (10)	12	All Learning Outcomes (LO #1 – LO #5)
	<b>Report</b>	1	10% (10)	13	LO #4, LO #5
<b>Summative assessment</b>	<b>Midterm Exam</b>	2hr	10% (10)	7	All Learning Outcomes (LO #1 – LO #5)
	<b>Final Exam</b>	3hr	50% (50)	16	All Learning Outcomes (LO #1 – LO #5)
<b>Total assessment</b>			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Historical overview of AI, AI Introduction
Week 2	Programing and AI important
Week 3	AI Types
Week 4	Problem Solving: <b>Introduction to problem-solving techniques and algorithms</b>
Week 5	AI Applications Overview: <b>A survey of AI applications in various domains such as healthcare, finance, and gaming.</b>
Week 6	<b>search algorithms like depth-first search and breadth-first search.</b>
Week 7	Mid-term Exam
Week 8	Machine Learning Basics: <b>A brief introduction to the fundamentals of machine learning</b>
Week 9	<b>Supervised learning</b>
Week 10	<b>unsupervised learning</b>
Week 11	<b>Expert systems</b>
Week 12	<b>Knowledge base</b>
Week 13	<b>Rule based approaches</b>
Week 14	<b>AI Ethics Awareness: An introduction to ethical considerations in AI, including fairness, bias, and responsible AI development.</b>
Week 15	<b>Preparatory week before the final Exam</b>

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Book Title: "Artificial Intelligence: A Guide to Intelligent Systems" Author: Michael Negnevitsky	No
Recommended Texts	<b>Russell, S., &amp; Norvig, P.</b> " <i>Artificial Intelligence: A Modern Approach</i> " (4th ed.). Pearson.	No
Websites	<a href="https://ai.stanford.edu/">https://ai.stanford.edu/</a>	

Grading Scheme				
Group	Grade	Mark	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Excellent	90 - 100	Outstanding Performance
	<b>B</b> - Very Good	Very Good	80 - 89	Above average with some errors
	<b>C</b> - Good	Good	70 - 79	Sound work with notable errors
	<b>D</b> - Satisfactory	Fair / Average	60 - 69	Fair but with major shortcomings
	<b>E</b> - Sufficient	Pass / Acceptable	50 - 59	Work meets minimum criteria
<b>Fail Group (0 – 49)</b>	<b>FX</b> – Fail	Fail (Pending)	(45-49)	More work required but credit awarded
	<b>F</b> – Fail	Fail	(0-44)	Considerable amount of work required
<p><b>Note:</b> Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.</p>				

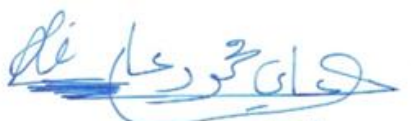


# MODULE DESCRIPTION FORM




Module Information			
Module Title	Mathematics		Module Delivery
Module Type	B		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CSIT1102		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	Artificial Intelligence	College	Computer Science and Information Technology
Module Leader	Elaf Ali Sfooq	e-mail	<a href="mailto:elaf.ali@uowa.edu.iq">elaf.ali@uowa.edu.iq</a>
Module Leader's Acad. Title	Assist Lecturer	Module Leader's Qualification	M.Sc.
Module Tutor	Elaf Ali Sfooq	e-mail	<a href="mailto:elaf.ali@uowa.edu.iq">elaf.ali@uowa.edu.iq</a>
Peer Reviewer Name	Assist lecturer Ali Mahmoud	e-mail	<a href="mailto:ali.mahmou@uowa.edu.iq">ali.mahmou@uowa.edu.iq</a>
Scientific Committee Approval Date	01/11/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

  
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## Module Aims, Learning Outcomes and Indicative Contents

<b>Module Objectives</b>	The aim of this module is to provide students with a solid foundation in core mathematical concepts and theories essential for further study in mathematics, science, and engineering. The course covers fundamental topics including algebra, calculus, geometry, discrete mathematics, probability, and statistics, equipping students with the analytical skills and problem-solving abilities required to apply mathematical principles effectively in academic and professional contexts.
<b>Module Learning Outcomes</b>	<p>By the end of this module, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Understand and correctly use basic mathematical terminology and notation.</li> <li>2. Apply formal mathematical definitions, theorems, and proofs to solve problems accurately.</li> <li>3. Demonstrate a foundational understanding of propositional and predicate logic.</li> <li>4. Explain the fundamental concepts of elementary set theory.</li> <li>5. Understand and analyze mathematical relations and functions.</li> <li>6. Understand the basic principles of graph theory and their applications.</li> </ol>
<b>Indicative Contents</b>	<ul style="list-style-type: none"> <li>• Calculus (Differentiation, Integration, and Applications)</li> <li>• Linear Algebra (Matrices, Vectors, Systems of Linear Equations)</li> <li>• Discrete Mathematics (Logic, Sets, Relations, Functions, Combinatorics)</li> <li>• Probability and Statistics (Descriptive Statistics, Probability Theory, Distributions)</li> <li>• Differential Equations (First-Order and Higher-Order Equations, Applications)</li> </ul>

## Learning and Teaching Strategies

<b>Strategies</b>	<ol style="list-style-type: none"> <li>1. <b>Lectures</b> <ul style="list-style-type: none"> <li>• Deliver core mathematical concepts, theories, and principles in a structured and systematic manner.</li> <li>• Provide examples and step-by-step explanations to illustrate key ideas.</li> </ul> </li> <li>2. <b>Tutorials and Problem-Solving Sessions</b> <ul style="list-style-type: none"> <li>• Enable students to practice and apply mathematical techniques learned in lectures.</li> <li>• Focus on exercises in algebra, calculus, discrete mathematics, probability, and statistics to reinforce understanding.</li> </ul> </li> <li>3. <b>Independent Learning and Self-Study</b> <ul style="list-style-type: none"> <li>• Students are encouraged to review lecture notes, textbooks, and online resources to consolidate learning.</li> <li>• Assignments and practice exercises promote self-directed learning.</li> </ul> </li> <li>4. <b>Formative Assessments and Feedback</b> <ul style="list-style-type: none"> <li>• Quizzes, assignments, and in-class exercises provide regular feedback on student progress.</li> </ul> </li> </ol>
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	<ul style="list-style-type: none"> <li>• Continuous assessment helps identify areas for improvement and supports mastery of mathematical concepts.</li> </ul> <p><b>5. Revision and Exam Preparation</b></p> <ul style="list-style-type: none"> <li>• Structured revision sessions and guided problem-solving prepare students for midterm and final exams.</li> <li>• Emphasizes analytical reasoning, proof construction, and application of mathematical methods.</li> </ul>
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Student Workload (SWL)			
Structured SWL (h/sem)	48	Structured SWL (h/w)	3
Unstructured SWL (h/sem)	102	Unstructured SWL (h/w)	6.8
Total SWL (h/sem)	<b>150</b>		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	5	15% (15)	2,3,5,10,11	LO #1, LO #3, LO #4
	Assignments	5	15% (15)	2,4,6,9,12	LO #2, LO #5, LO #6
	Projects / Lab.	-	-	-	Not Applicable (N/A)
	Report	1	10% (10)	13	LO #2, LO #6
Summative assessment	Midterm Exam	2hr	10% (10)	7	(LO #1 – LO #4)
	Final Exam	3hr	50% (50)	16	All Learning Outcomes (LO #1 – LO #6)
Total assessment			100% (100 Marks)		

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	Functions: Function Definition, Domain and range of functions, Graphing of function
<b>Week 2</b>	Limits: Definition of limits, Theorems of limits, Type of limits
<b>Week 3</b>	The Definition and Interpretation of the Derivative
<b>Week 4</b>	Methods of proof and Mathematical induction
<b>Week 5</b>	Counting principles Permutations and combinations
<b>Week 6</b>	Pigeonhole principle Inclusion-exclusion principle
<b>Week 7</b>	Midterm
<b>Week 8</b>	Number Theory: <ul style="list-style-type: none"> <li>● Prime numbers and factorization</li> <li>● Modular arithmetic</li> <li>● GCD and LCM</li> <li>● Applications in cryptography</li> </ul>
<b>Week 9</b>	Probability and Statistics: <ul style="list-style-type: none"> <li>● Probability spaces</li> <li>● Random variables and distributions</li> <li>● Expectation and variance</li> <li>● Applications in data analysis and algorithm analysis</li> </ul>
<b>Week 10</b>	Linear Algebra for Computer Science: <ul style="list-style-type: none"> <li>● Vectors and matrices</li> </ul>
<b>Week 11</b>	<ul style="list-style-type: none"> <li>● Linear transformations</li> </ul>
<b>Week 12</b>	<ul style="list-style-type: none"> <li>● Eigenvalues and eigenvectors</li> <li>● Applications in Machine Learning</li> </ul>
<b>Week 13</b>	Special Topics: <ul style="list-style-type: none"> <li>● Cryptography</li> </ul>
<b>Week 14</b>	<ul style="list-style-type: none"> <li>● Computation theory and Complexity theory</li> </ul>
<b>Week 15</b>	Recap for the final exam



Learning and Teaching Resources		
	Text	Available in the Library?
<b>Required Texts</b>	Calculus, Thomas ,1990,5th edition	Yes
<b>Recommended Texts</b>	Howard Anton, Irl Bivens, Stephen Davis, CALCULUS, 10th Edition, John Wiley & Sons, Inc., 2012.	No
<b>Websites</b>	<a href="https://ocw.mit.edu/">https://ocw.mit.edu/</a> , <a href="https://tutorial.math.lamar.edu/">https://tutorial.math.lamar.edu/</a>	

Grading Scheme				
Group	Grade	Mark	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Excellent	90 - 100	Outstanding Performance
	<b>B</b> - Very Good	Very Good	80 - 89	Above average with some errors
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	<b>E</b> - Sufficient	Pass / Acceptable	50 - 59	Work meets minimum criteria
<b>Fail Group (0 – 49)</b>	<b>FX</b> – Fail	Fail (Pending)	(45-49)	More work required but credit awarded
	<b>F</b> – Fail	Fail	(0-44)	Considerable amount of work required

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

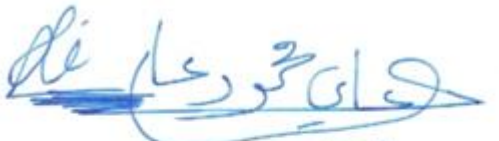


# MODULE DESCRIPTION FORM




Module Information			
Module Title	Programming Basics		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	AI1102		
ECTS Credits	9		
SWL (hr/sem)	225		
Module Level	1	Semester of Delivery	
Administering Department	Artificial Intelligence	College	Computer Science and Information Technology
Module Leader	Abdulkareem Zwaen	e-mail	<a href="mailto:abdulkareem.zouine@uowa.edu.iq">abdulkareem.zouine@uowa.edu.iq</a>
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Abdulkareem Zwaen	e-mail	<a href="mailto:abdulkareem.zouine@uowa.edu.iq">abdulkareem.zouine@uowa.edu.iq</a>
Peer Reviewer Name	Ali Mahmoud Ali	e-mail	<a href="mailto:ali.mahmoud@uowa.edu.iq">ali.mahmoud@uowa.edu.iq</a>
Scientific Committee Approval Date	01/11/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	-
Co-requisites module	None	Semester	-

  
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Department Head Approval



  
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٢٠٢٦ - ٢٠٢٥

Dean of the College Approval

## Module Aims, Learning Outcomes and Indicative Contents

<b>Module Objectives</b>	<p>The objectives of this module are to:</p> <ol style="list-style-type: none"> <li>1. Introduce students to fundamental programming concepts and problem-solving techniques using the C++ programming language.</li> <li>2. Develop students' understanding of programming paradigms, with emphasis on the imperative approach and foundational functional concepts.</li> <li>3. Enable students to understand and apply core C++ language features, including variables, data types, operators, control structures, and loops.</li> <li>4. Build a foundational understanding of object-oriented programming concepts and their implementation in C++.</li> <li>5. Strengthen students' ability to analyze computational problems and design efficient, structured C++ solutions.</li> <li>6. Prepare students to develop, test, and debug basic C++ applications using standard libraries and best programming practices.</li> </ol>
<b>Module Learning Outcomes</b>	<p>By the end of this module, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Explain the fundamental concepts and terminology associated with programming languages, with emphasis on imperative and functional programming paradigms.</li> <li>2. Apply core C++ programming constructs, including variables, data types, operators, control structures, and loops, to develop correct programs.</li> <li>3. Use standard C++ libraries to perform input/output operations and basic mathematical computations.</li> <li>4. Design and implement object-oriented programs using key OOP principles such as encapsulation and modularity.</li> <li>5. Analyze and solve computational problems by applying structured and functional programming techniques.</li> <li>6. Develop, test, and debug C++ programs using appropriate programming practices and logical reasoning.</li> </ol>
<b>Indicative Contents</b>	<ul style="list-style-type: none"> <li>• Introduction to algorithms and problem-solving techniques</li> <li>• Overview of programming languages and programming paradigms</li> <li>• Introduction to C++ programming environment and syntax</li> <li>• Variables, data types, and user input/output in C++</li> <li>• Operators, expressions, and logical conditions</li> <li>• Control structures: if, switch, and decision making</li> </ul>

	<ul style="list-style-type: none"> <li>• Looping structures: while, do-while, and for loops</li> <li>• Strings, Boolean values, and mathematical operations in C++</li> <li>• C++ standard libraries and basic program organization</li> <li>• Object-oriented programming concepts in C++</li> <li>• Program testing, debugging, and code optimization</li> <li>• Development of simple C++ applications</li> </ul>
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<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	<ol style="list-style-type: none"> <li>1. <b>Lectures</b> Core programming concepts, syntax, and paradigms are introduced through structured lectures, providing students with a solid theoretical foundation in C++ programming and problem-solving techniques.</li> <li>2. <b>Guided Practical Sessions</b> Hands-on programming exercises are used to reinforce lecture material, allowing students to practice coding, experiment with language constructs, and gain confidence in writing C++ programs.</li> <li>3. <b>Problem-Based Learning</b> Students are engaged in solving progressively complex programming problems that promote analytical thinking, algorithmic reasoning, and the application of imperative and functional programming concepts.</li> <li>4. <b>Demonstrations and Code Walkthroughs</b> Live demonstrations and step-by-step code walkthroughs are employed to illustrate program logic, control flow, and debugging techniques.</li> <li>5. <b>Independent Learning</b> Students are encouraged to explore additional programming examples, documentation, and online resources to strengthen self-learning skills and technical competence.</li> <li>6. <b>Continuous Feedback and Assessment</b> Regular quizzes, assignments, and practical tasks provide formative feedback, enabling students to identify strengths and areas for improvement throughout the semester.</li> <li>7. <b>Revision and Exam Preparation Sessions</b> Dedicated sessions are conducted to review key concepts, clarify common misconceptions, and prepare students for midterm and final examinations.</li> </ol>

<b>Student Workload (SWL)</b>			
<b>Structured SWL (h/sem)</b>	90	<b>Structured SWL (h/w)</b>	6
<b>Unstructured SWL (h/sem)</b>	135	<b>Unstructured SWL (h/w)</b>	9
<b>Total SWL (h/sem)</b>	<b>225</b>		

<b>Module Evaluation</b>					
		<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Formative assessment</b>	<b>Quizzes</b>	5	10% (10)	2,4,6,8,11	LO #1, LO #2, LO #10, LO #11
	<b>Assignments</b>	5	10% (10)	2,3,5,9,12	LO #3, LO #4, LO #6, LO #7
	<b>Projects / Lab.</b>	10	10% (10)	Continuous	All Learning Outcomes
	<b>Report</b>	1	10% (10)	13	LO #5, LO #8, LO #10
<b>Summative assessment</b>	<b>Midterm Exam</b>	2hr	10% (10)	7	LO #1 – LO #7
	<b>Final Exam</b>	3hr	50% (50)	16	All Learning Outcomes
<b>Total assessment</b>			<b>100% (100 Marks)</b>		

## Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	Algorithms
Week 2	Introduction to programming languages and C++
Week 3	Variables
Week 4	C++ Libraries
Week 5	C++ User Input
Week 6	C++ Operators
Week 7	Mid-term Exam
Week 8	C++ Strings & C++ Math
Week 9	C++ Booleans
Week 10	If condition
Week 11	Switch condition
Week 12	While loop
Week 13	Do-while loop
Week 14	For loop
Week 15	C++ Break and Continue
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	C++ Libraries
Week 2	C++ User Input
Week 3	C++ Operators
Week 4	If condition
Week 5	Switch condition
Week 6	While loop
Week 7	Do-while loop
Week 8	For loop
Week 9	C++ Break and Continue

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	The C++ Programming Language (4th Edition) by Bjarne Stroustrup	No
Recommended Texts	<b>Stroustrup, B.</b> (2013). <i>The C++ Programming Language</i> (4th ed.). <b>Deitel, P., &amp; Deitel, H.</b> (2020). <i>C++ How to Program</i> (10th ed.).	
Websites	<a href="https://www.learncpp.com">https://www.learncpp.com</a> <a href="https://www.w3schools.com/CPP/default.asp">https://www.w3schools.com/CPP/default.asp</a>	

## Grading Scheme

Group	Grade	Mark	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Excellent	90 - 100	Outstanding Performance
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**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.