



*Academic Program Specification Form For The
Colleges for the Academic Year 2023-2024
First Stage (Bologna Track)*

*University: Anbar
College : Computer Science and Information Technology
Department : Computer Networks Systems
Date Of Form Completion : 6/3/2024*

*Dean's Name
Date : / /
Signature*

*Dean's Assistant For
Scientific Affairs
Date : / /
Signature*

*Head of Department of
Quality Assurance and
Academic
Date : / /
Signature*

*Quality Assurance And University Performance
Manager
Date : / /
Signature*



TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the programme.

1. Teaching Institution	University of Anbar
2. University Department/Centre	College of Computer Science and Information Technology/Department of Computer Network Systems
3. Programme Title	Computer network systems
4. Title of Final Award	Bachelor of Computer Networks Systems
5. Modes of Attendance offered	Bologna Process
6. Accreditation	
7. Other external influences	
8. Date of production/revision of this specification	1 / 3 / 2024
9. Aims of the Programme	
<p>The objectives of the Computer Networking Department at the College of Computer Science and Information Technology vary based on the institution's specific goals and priorities. Below are some objectives of the Computer Networking program that the department seeks to achieve:</p> <ol style="list-style-type: none">1. Providing comprehensive networking education: The department should aim to offer a comprehensive curriculum covering both fundamental and advanced concepts in computer networking. This includes topics such as network protocols, network security, routing, switching, wireless networks, network management, and emerging networking technologies.	

2. Developing practical skills: The department should focus on equipping students with practical skills applicable to real-world communication scenarios. Practical training should include configuring and managing network devices, troubleshooting network issues, designing network infrastructures, and implementing network security measures.
3. Keeping pace with industry trends and developments: The field of networking evolves rapidly, with new technologies, protocols, and trends emerging regularly. The networking department should strive to keep up with these developments by integrating relevant and advanced topics into the curriculum. This ensures that students are equipped with the knowledge and skills needed to adapt to the constantly changing networking landscape.
4. Enhancing teamwork and collaboration: Networking specialists often work in teams and collaborate with colleagues to design, implement, and manage networks. The program should emphasize the importance of teamwork and provide opportunities for students to work collaboratively on networking projects and assignments. This helps develop their interpersonal skills and communication abilities, as well as their effectiveness in a team-based environment.
5. Preparing students for industry certifications: Many networking professionals pursue industry certifications to validate their skills and enhance their career prospects. The networking department should align the curriculum with relevant industry certifications, such as Cisco Certified Network Associate (CCNA) or CompTIA Network+, and provide resources and guidance to help students prepare for these certifications.
6. Ensuring high-quality teaching and learning: The department should prioritize the recruitment and professional development of skilled faculty members with both professional experience and teaching expertise. Regular assessments and feedback mechanisms should be implemented to ensure the quality of teaching and learning experiences. Additionally, the program should leverage modern educational technologies and resources to enhance the learning environment.
7. Supporting ongoing skills upgrading: Networking professionals need to continuously update their knowledge and skills to keep pace with developments in the field. The department should encourage and support lifelong learning for students by providing opportunities for professional development, such as continuing education programs, workshops, and seminars.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

The learning outcomes of students in the Computer Networking Department at the College of Computer Science and Information Technology vary depending on the specific curriculum and institutional goals. Below are the learning outcomes associated with the Computer Networking department:

1. **Understanding Networking Concepts:** Students should demonstrate understanding of fundamental networking concepts, including network architecture, protocols, and technologies.
2. **Network Implementation:** Students should be able to implement computer networks, considering factors such as scalability, security, reliability, and performance.
3. **Network Administration and Management:** Students should acquire the necessary skills to effectively administer and manage network systems, including tasks such as configuring network devices, troubleshooting network issues, and ensuring network security.
4. **Network Security:** Students should understand the principles and techniques of network security, including authentication, access control, encryption, firewalls, intrusion detection, and prevention systems.
5. **Network Protocols and Services:** Students should have a comprehensive understanding of various network protocols and services, such as TCP/IP, DNS, DHCP, VPN, and others, and be able to apply them effectively in network configurations.
6. **Network Performance Optimization:** Students should learn network performance optimization techniques, including analyzing and improving network latency, bandwidth utilization, and response times.
7. **Collaboration and Communication:** Students should develop effective communication and collaboration skills to work in multidisciplinary teams, interact with clients or users, and provide technical information clearly and professionally.
8. **Ethical and Legal Considerations:** Students should understand the ethical and legal issues related to networks, including privacy, intellectual property, cybercrimes, and compliance with industry regulations.
9. **Professional Development:** Students should develop a commitment to continuous learning and professional growth, keeping pace with developments in networking technologies and industry trends.

Program Description

Program code:	BSc-MECH	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

Teaching Staff

No.	Full Name	Degree	Field	Academic Title	Email	Mobile no.
1.	Ahmed Nouri Rashid Mustafa	PhD	Computer Engineering	Assistant Professor	rashidisgr@uoanbar.edu.iq	07832526040
2.	Khattab Mujall Ali Al-Heiti	PhD	Computer Science	Assistant Professor	co.khattab.alheeti@uoanbar.edu.iq	07806443593
3.	Salah Awad Salman Al-Eisaawi	PhD	Computer Engineering	Professor	salah_eng1996@uoanbar.edu.iq	07803759524
4.	Sufian Tayeh Faraj Qit'an Al-Janabi	PhD	Telecommunication Engineering	Professor	sufyan.aljanabi@uoanbar.edu.iq	07808655508
5.	Ali Maki Sghayyar Saleh	PhD	Computer Science	Professor	ali@uoanbar.edu.iq	07824937080
6.	Abdul Kareem Abdul Hameed Najm Abdullah	PhD	Computer Engineering	Assistant Professor	abdulkareem.alaloosy@uoanbar.edu.iq	07808923889
7.	Saad Ibrahim Ahmed Hussein	PhD	Islamic Law	Assistant Professor	Saad.ibrahim@uoanbar.edu.iq	07903711576
8.	Omar Munther Hussein Smeit	PhD	Computer Science	Assistant Professor	omar.alokashi@uoanbar.edu.iq	07803387690
9.	Ismael Taha Ahmed Darg	PhD	Computer Science	Assistant Professor	ismael.taha@uoanbar.edu.iq	07822280624
10.	Sumaya Abdullah Hamad Shukur	PhD	Computer Science	Lecturer	sumayah.hamad@uoanbar.edu.iq	07807987722
11.	Ahmed Mahdi Jabeer Jasim	PhD	Computer Science	Lecturer	ahmed.mahdi@uoanbar.edu.iq	07727755234
12.	Sinan Ali Abd Dali	PhD	Computer Science	Lecturer	senan.ali@uoanbar.edu.iq	07830946644
13.	Khatam Abdul Basit Muhammad Khalil	Master's	Computer Science	Assistant Lecturer	khitam.abdulbasit@uoanbar.edu.iq	07826050068
14.	Mohammed Shihab Muayyad	Master's	Computer Science	Assistant Lecturer	Mahmmed.shiab@uoanbar.edu.iq	07703678476
15.	Saif Saad Hameed Fataih	Master's	Computer Engineering	Lecturer	dove_white84@uoanbar.edu.iq	07901747315
16.	Iman Turki Mahdi Salman	Master's	Computer Science	Lecturer	maymoonat@uoanbar.edu.iq	07822108210
17.	Fouad Hamadi Awad Ghadban	Master's	Computer Science	Lecturer	fouad.hammadi@uoanbar.edu.iq	07813533384
18.	Sadeq Qais Abdul Rahman Duleimi	Master's	Computer Science	Assistant Lecturer	co.sedeikaldossary@uoanbar.edu.iq	07821512233
19.	Adi Abd Hazem Ahmed	Master's	Management and Economics	Assistant Lecturer	oda.abid@uoanbar.edu.iq	07817823146
20.	Taysir Ahmed Yassin Dawood	Master's	Mechanical Engineering	Assistant Lecturer	taisir.ahmed@uoanbar.edu.iq	07903468936
21.	Dania Abdul Qahar Shakir Mahmoud	Master's	Computer Science	Assistant Lecturer	dan14c1001@uoanbar.edu.iq	0790344888

Degree accreditation and GPA

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

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	C++I		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	NSCC107		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The course aims to introduce students to the fundamentals of programming using the C++ language. Students learn programming concepts such as variables, data types, control structures, functions, and objects.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Develop proficiency in the C++ programming language, including a strong understanding of its syntax, semantics, data types, control structures, functions, and object-oriented programming concepts.
Indicative Contents المحتويات الإرشادية	Introduction to C++ Programming Object-Oriented Programming (OOP) in C++ C++ Standard Library Memory Management in C++ Data Structures and Algorithms in C++ C++ Application Development

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Conceptual Understanding: Hands-on Practice Code Review and Feedback Problem-Solving Exercises
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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	4.1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		



Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Overview to Programming Language
Week 2	Algorithms and Flow Charts
Week 3	C++ program structure
Week 4	Data Types and variables
Week 5	Input/ output statements
Week 6	Unary Minus Increment and /decrement Operators.
Week 7	Assignment , Relational ,Logical, Bitwise and Logical operations.
Week 8	Control structures
Week 9	Conditional statements: If and if-else
Week 10	Switch statements
Week 11	The Switch Selection Statement
Week 12	Looping statements
Week 13	Do/While Statement
Week 14	For Statement
Week 15	Break and Continue Control Statements Nested Loops
Week 16	Final Exam



Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Arrays and strings in C++
Week 2	Functions: defining, calling, and passing arguments
Week 3	Pointers and memory management in C++
Week 4	Dynamic memory allocation with new and delete operators
Week 5	Classes and objects in C++
Week 6	Operator overloading in C++
Week 7	Standard Template Library (STL) in C++

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	K. Venugopal and Raj Buyya, <i>Mastering C++</i> , McGraw Hill Education, 1997.	
Recommended Texts		
Websites	https://www.learncpp.com/ https://www.w3schools.com/Cpp/default.asp	



Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(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

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Electrical Circuits		Module Delivery
Module Type	Support		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	NSCC114		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	First Class	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<p>Introduce students to the fundamental concepts of electrical circuits, including voltage, current, resistance, and power. Develop a solid understanding of Ohm's Law and basic circuit analysis techniques.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Demonstrate a clear understanding of fundamental concepts in electrical circuits, including voltage, current, resistance, power, and energy. Apply Ohm's Law to analyze simple circuits.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Introduction to Electrical Circuits DC Circuit Analysis AC Circuit Analysis Circuit Theorems and Network Analysis Operational Amplifiers (Op-Amps) Three-Phase Circuits Network analysis techniques</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<p>Strategies</p>	<p>Conceptual Understanding Active Learning Problem-Solving Approach Laboratory Experience Computer-Aided Analysis Collaborative Learning Visualization Techniques Progress Monitoring</p>
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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	4.1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	LO #1,2, 3 and 5
	Assignments	2	10% (10)	2,12	LO # 3, 4 and 5
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 5,8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	60% (60)	16	All
Total assessment					

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Electric Circuits: Components, Types, and Related Concepts
Week 2	Parallel and Series-Parallel Configurations
Week 3	Full-Wave Rectification
Week 4	Clampers and Clippers
Week 5	Transistor Construction and Transistor Operation
Week 6	Common-Base Configuration and Common-Emitter
Week 7	Operating Point and Fixed-Bias Circuit
Week 8	Voltage-Divider Bias: -DC Bias with Voltage Feedback



	- A bipolar Junction Transistor Constructed - PNP Transistor
Week 9	Construction and characteristics of JFETs -Depletion-Type MOSFET
Week 10	Semiconductor Field-Effect Transistor (MOSFET) -Virtual Machine Android App (V MOS) -Complementary Metal–Oxide–Semiconductor (CMOS)
Week 11	Transition and Diffusion Capacitance- Reverse Recovery Time
Week 12	Diode Equivalent Circuit- Extrinsic Semiconductors (p-n Junction)
Week 13	Energy level: Definition, Diagram, & Facts
Week 14	Amplification in AC Domain
Week 15	A bipolar Junction Transistor- BJT Modeling
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Introduction to laboratory equipment and safety procedures
Week 2	Familiarization with basic electrical components: resistors, capacitors, and inductors
Week 3	Measurement techniques: using multimeters and oscilloscopes
Week 4	Circuit analysis techniques: Ohm's Law, Kirchhoff's Laws
Week 5	Node voltage method and mesh current method for circuit analysis
Week 6	Power calculations in DC circuits
Week 7	Laboratory experiments on DC circuit analysis

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?



Required Texts	Integrated Electronics Analog and Digital & System. Author – Jacob Millman. Christos C. Halkias	
Recommended Texts		
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
<p>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.</p>				



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	English		Module Delivery
Module Type	Basic		<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	UOA140		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	First Class	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<p>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.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Developing advanced reading comprehension skills and critical analysis of various texts.</p> <p>Enhancing writing skills across different genres and formats.</p> <p>Improving oral communication and presentation skills.</p> <p>Expanding language proficiency in English, including grammar, vocabulary, and pronunciation.</p> <p>Analyzing and interpreting literary works from diverse genres and periods.</p> <p>Conducting effective research and demonstrating information literacy.</p> <p>Cultivating critical thinking skills and forming well-supported opinions.</p> <p>Enhancing intercultural communication and understanding.</p> <p>Fostering creativity and imaginative expression through literature and writing.</p> <p>Cultivating a love for lifelong learning in the field of English.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<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

استراتيجيات التعلم والتعليم

<p>Strategies</p>	<p>Active Reading and Textual Analysis</p>
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	Collaborative Learning Writing Workshops and Feedback Technology Integration Creative Expression
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Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	5.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	22	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	1.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	LO #1,2, 3 and 5
	Assignments	2	10% (10)	2,12	LO # 3, 4 and 5
	Projects / Lab.	1			
	Report	1	10% (10)	13	LO # 5,8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	60% (60)	16	All
Total assessment					

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Student life



	<ul style="list-style-type: none"> • Reading- ways of reading: reading method • Writing – punctuation, Linking ideas, rules
Week 2	<p>Student life</p> <p>Part of speech- identifying nouns, verbs, adjective, adverbs, and prepositions.</p>
Week 3	<p>Daily routines:</p> <ul style="list-style-type: none"> • Predicting content • Skimming
Week 4	<p>Daily routines:</p> <p>Words that go together (Collocations, Rules)</p>
Week 5	<p>People and the environment</p> <ul style="list-style-type: none"> • Scanning- using headings • Meaning from context • Writing (punctuation and rules)
Week 6	<p>Architecture</p> <p>Making notes: notes from study (intensive) reading, labelling diagrams</p>
Week 7	<p>Architecture</p> <ul style="list-style-type: none"> • Writing about a building – word and phrases • (language to describe buildings)
Week 8	<p>Education</p> <ul style="list-style-type: none"> • Universities – predicting content, linking ideas • Writing a letter or email
Week 9	<p>Education</p> <p>Spelling rules for plural countable nouns</p>
Week 10	<p>Technology</p> <ul style="list-style-type: none"> • Reading (invention) <p>Writing (Describing things- writing adscription of advice</p>
Week 11	<p>Food, drink, and culture</p> <ul style="list-style-type: none"> • Topic sentence: using a topic sentence to help understanding <p>Writers opinion: identifying the writer's opinion</p>
Week 12	<ul style="list-style-type: none"> • Writing (punctuation ((commas)), linking ideas ((in addition, and using pronouns: avoiding repetition. <p>Prefixes and their meanings</p>
Week 13	<p>Cities of the world</p> <ul style="list-style-type: none"> • Reading (looking at data: tables charts, and graphs. • Writing (Rules :comparatives and superlatives , linking ideas ; using relative pronouns which and where .
Week 14	<p>Brain Power</p> <ul style="list-style-type: none"> • Reading: using pronouns and synonyms to avoid repetition. • Writing (common mistakes; typical grammar error , summaries: summarizing the main points of a text
Week 15	<p>Staying alive</p> <ul style="list-style-type: none"> • Reading: Dangerous diseases of our time • Writing (number in texts ((words or figures? Writing numbers, learning : synonyms and antonyms).
Week 16	Final Exam



Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Headway Plus Beginner	
Recommended Texts		
Websites		



Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(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

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Information Technology		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	NSCC110		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	1	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	Develop technical skills: The primary aim of an IT course is to equip students with the necessary technical skills and knowledge to work effectively in the field of information technology.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Understand fundamental concepts: Demonstrate a solid understanding of fundamental concepts in information technology, including computer systems, networks, databases, programming languages, and software development methodologies.
Indicative Contents المحتويات الإرشادية	Introduction to Information Technology: Overview of information technology concepts, principles, and applications. Historical development and evolution of IT. Ethical, legal, and societal considerations in IT.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Hands-on Practical Exercises Case Studies and Real-World Examples Collaborative Learning Continuous Assessment and Feedback
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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	5.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	97	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	6.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		



Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	LO #1,2, 3 and 5
	Assignments	2	10% (10)	2,12	LO # 3, 4 and 5
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 5,8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction of Computers and Programming
Week 2	Computer history and generation
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	Secondary Storage
Week 8	Memory and storage organization
Week 9	Computer Software (Application software)
Week 10	Middleware
Week 11	Operating Systems
Week 12	Telecommunications systems
Week 13	Computer networks and applications
Week 14	Protocols in networking
Week 15	Layers of the OSI Model
Week 16	Final Exam



Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Networking fundamentals: setting up a local area network (LAN)
Week 2	Network configuration and troubleshooting exercises
Week 3	Introduction to web development: HTML and CSS basics
Week 4	Database management system exercises: advanced SQL queries
Week 5	Mobile app development: creating a simple mobile application
Week 6	IT support and helpdesk management scenarios
Week 7	Troubleshooting and problem-solving in IT environments

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Ralph M. Stair & George W. Reynolds, <i>Principles of Information Systems</i> , Ninth Edition, Cengage Learning, 2010. Behrouz A. Forouzan, <i>Data Communications and Networking</i> , Fifth Edition, McGraw-Hill, USA, 2013.	
Recommended Texts		
Websites		



Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(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

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Logic 1		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	NSCC109		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	First Class	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader			e-mail
Module Leader's Acad. Title			Module Leader's Qualification
Module Tutor			e-mail
Peer Reviewer Name			e-mail
Scientific Committee Approval Date			Version Number

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<p>The module aims to provide students with a solid understanding of digital logic principles and concepts. Students learn about Boolean algebra, logic gates, truth tables, and digital logic circuits.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Demonstrate a solid understanding of digital logic principles, including Boolean algebra, logic gates, truth tables, and the concept of binary representation.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Introduction to Digital Logic Combinational Logic Design Arithmetic circuits Sequential Logic Design Circuit Testing and Verification</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<p>Strategies</p>	<p>Conceptual Understanding Problem-Solving Approach Hands-on Laboratory Experience Design Projects Simulation and Modeling Problem-Based Learning</p>
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Student Workload (SWL)

الحمل الدراسي للطالب

<p>Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل</p>	<p>63</p>	<p>Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً</p>	<p>4.2</p>
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Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

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

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction: Digital System
Week 2	Number Systems
Week 3	Octal and Hexadecimal Numbers
Week 4	Number base conversion
Week 5	Theories of Boolean Algebra
Week 6	Digital Logic gates
Week 7	Boolean Expression and Truth table
Week 8	Sum Of Product Simplification
Week 9	Product Of Sum Simplification
Week 10	Exclusive OR
Week 11	NAND gates
Week 12	NOR gates
Week 13	Two- and Three-Variables Karnaugh Maps.



Week 14	Four Variables Karnaugh Maps.
Week 15	Quine-McCluskey method
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Introduction to logic gates: AND, OR, NOT
Week 2	Constructing truth tables for basic logic operations
Week 3	Designing and building simple logic circuits using logic gates
Week 4	Verifying the functionality of logic circuits through experimentation
Week 5	Boolean algebra and simplification technique
Week 6	Applying Boolean algebra to simplify logic circuits
Week 7	Advanced logic gates: XOR, NAND, NOR

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Digital fundamentals, Thomas L. Floyd, 11 th edition Digital Design, Morris Mano, 4 th edition	
Recommended Texts	An Introduction to Logic Technology Fundamentals of logic design	
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
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Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(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

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Mathematics		Module Delivery
Module Type	Support		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	NSDC113		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level		Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<p>Core Mathematical Knowledge: The course aims to provide students with a solid foundation of core mathematical concepts and theories. This includes topics such as algebra, calculus, geometry, discrete mathematics, probability, and statistics. The aim is to ensure that students have a comprehensive understanding of fundamental mathematical principles.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Understand and Apply Mathematical Concepts: Demonstrate a thorough understanding of mathematical concepts, theories, and techniques relevant to the module. Apply these concepts to solve mathematical problems and analyze mathematical structures and relationships.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Calculus Linear Algebra Discrete Mathematics Probability and Statistics Differential Equations</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<p>Strategies</p>	<p>Hands-on Practical Exercises Case Studies and Real-World Examples Collaborative Learning Continuous Assessment and Feedback</p>
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Student Workload (SWL)

الحمل الدراسي للطالب

<p>Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل</p>	<p>48</p>	<p>Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً</p>	<p>3.2</p>
<p>Unstructured SWL (h/sem)</p>	<p>52</p>	<p>Unstructured SWL (h/w)</p>	<p>3.4</p>



الحمل الدراسي غير المنتظم للطالب خلال الفصل	الحمل الدراسي غير المنتظم للطالب أسبوعيا
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	LO #1,2, 3 and 5
	Assignments	2	10% (10)	2,12	LO # 3, 4 and 5
	Projects / Lab.				
	Report	1	10% (10)	13	LO # 5,8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Functions: Function Definition, Domain and range of functions, Graphing of function
Week 2	Limits: Definition of limits, Theorems of limits, Type of limits
Week 3	The Definition and Interpretation of the Derivative
Week 4	Properties of Derivative , Some laws of derivatives
Week 5	Derivatives of the six trig functions
Week 6	Exponential Functions, Logarithm Functions
Week 7	Inverse Sine, Inverse cosine
Week 8	Inverse tangent, Alternate Notation
Week 9	The six hyperbolic trigonometric functions I
Week 10	The six hyperbolic trigonometric functions II
Week 11	The two forms of the chain rule
Week 12	Using the chain rule
Week 13	first derivative, second derivative, third derivative.



Week 14	logarithms
Week 15	the properties of logarithms
Week 16	Final exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	George B. Thomas, Jr., Maurice D. Weir, Joel Hass, THOMAS' CALCULUS: EARLY TRANSCENDENTALS, Twelfth Edition, Pearson Education, Inc., 2010.	
Recommended Texts	Howard Anton, Irl Bivens, Stephen Davis, CALCULUS, 10th Edition, John Wiley & Sons, Inc., 2012.	
Websites		



Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
<p>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.</p>				



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Advanced Mathematics		Module Delivery
Module Type	Support		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	NSDC103		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The course aims to build upon the foundational knowledge of mathematics acquired in previous courses and provide a more comprehensive and rigorous understanding of key concepts. This includes topics such as calculus, linear algebra, number theory, and discrete mathematics.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Students should be able to explain and apply advanced mathematical concepts and theories accurately, demonstrating a thorough understanding of their underlying principles and relationships.
Indicative Contents المحتويات الإرشادية	Advanced topics in calculus and analysis, including limits, continuity, sequences, series, differentiation, integration, and convergence of functions. This may also include topics such as uniform convergence, Taylor series, and power series.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Active Learning Scaffolding Real-World Applications Technology Integration
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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	3.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	77	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	5.1
Total SWL (h/sem)	125		



الحمل الدراسي الكلي للطالب خلال الفصل

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	LO #1,2, 3 and 5
	Assignments	2	10% (10)	2,12	LO # 3, 4 and 5
	Projects / Lab.				
	Report	1	10% (10)	13	LO # 5,8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	60% (60)	16	All
Total assessment					

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to differential equation
Week 2	Types of differential equation
Week 3	Linear and Nonlinear DE
Week 4	Types of First Order and First Degree
Week 5	Variable Separable Equation
Week 6	Leibnitz's (linear) Equation
Week 7	Bernoulli's Differential Equation
Week 8	Exact Differential Equation
Week 9	Non Exact Differential Equation
Week 10	Homogeneous and Non Homogeneous DE
Week 11	Second order differential equation with constant coefficient
Week 12	Laplace transform
Week 13	Laplace Invers transform
Week 14	Power series
Week 15	Fourier series
Week 16	Final Exam



Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		
Recommended Texts		
Websites		



Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Arabic		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOA137		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	First Class	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader			e-mail
Module Leader's Acad. Title			Module Leader's Qualification
Module Tutor			e-mail
Peer Reviewer Name			e-mail
Scientific Committee Approval Date			Version Number

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None		Semester
Co-requisites module	None		Semester



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<p>The program aims to help students develop proficiency in reading, writing, speaking, and understanding Arabic. This includes expanding vocabulary, improving grammar skills, and enhancing oral communication abilities.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Demonstrate proficiency in reading, writing, speaking, and understanding Arabic at an appropriate level.</p> <p>Display a nuanced understanding of Arab culture, history, traditions, and societal norms.</p> <p>Apply knowledge of Arabic linguistics, including phonetics, morphology, syntax, and dialectal variations, to analyze and interpret Arabic texts.</p> <p>Read and comprehend various types of Arabic texts, including literary works, news articles, and academic writings.</p> <p>Produce coherent and well-structured written work in Arabic, demonstrating effective composition skills.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Introduction to Arabic Language and Culture: Arabic alphabet and pronunciation Basic vocabulary and grammar Intercultural communication and cultural norms Arabic Reading and Writing: Building vocabulary and improving reading comprehension Sentence structure and basic composition Developing writing skills through practice and feedback Intermediate Arabic Language: Expanding vocabulary and enhancing grammar skills Oral communication and conversation practice Reading and analyzing texts of moderate complexity Arabic Literature: Introduction to classical and modern Arabic literature Reading and analyzing short stories, poems, and novels Exploring themes, styles, and literary techniques</p>



Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Immersion
	Communicative Approach
	Task-based Learning
	Authentic Materials
	Technology Integration

Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	2.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	42	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	LO #1,2, 3 and 5
	Assignments	2	10% (10)	2,12	LO # 3, 4 and 5
	Projects / Lab.				
	Report	1	10% (10)	13	LO # 5,8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	60% (60)	16	All
Total assessment			100% (100 Marks)		



Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Arabic Language and Culture
Week 2	Arabic Reading and Writing
Week 3	Intermediate Arabic Language
Week 4	Arabic Literature
Week 5	Advanced Arabic Language
Week 6	Arabic alphabet and pronunciation
Week 7	Vocabulary building
Week 8	Sentence structure and basic composition
Week 9	Expanding vocabulary and enhancing grammar skills
Week 10	Reading and analyzing short stories or poem
Week 11	Exploring themes, literary devices, and cultural contexts
Week 12	Reading and analyzing authentic texts of moderate complexity
Week 13	Arabic Translation and Interpretation
Week 14	Practice in translating written texts
Week 15	Review and Assessment
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	



Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		
Recommended Texts		
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(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

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	C++ II		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	NSCC108		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The course aims to provide students with a comprehensive understanding of the C++ programming language. Students learn the syntax, semantics, and features of C++ and gain proficiency in writing efficient and effective code.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Develop proficiency in the C++ programming language, including a strong understanding of its syntax, semantics, data types, control structures, functions, and object-oriented programming concepts. Develop the ability to analyze problems, design algorithms, and implement solutions using C++ programming techniques. Apply critical thinking and logical reasoning to solve programming challenges.
Indicative Contents المحتويات الإرشادية	Introduction to C++ Programming Object-Oriented Programming (OOP) in C++ C++ Standard Library Memory Management in C++ Data Structures and Algorithms in C++ C++ Application Development

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Conceptual Understanding: Hands-on Practice Code Review and Feedback Problem-Solving Exercises
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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem)	63	Structured SWL (h/w)	4.2
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الحمل الدراسي المنتظم للطالب خلال الفصل		الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Function
Week 2	Passing Parameters. Passing by Value. Passing by Reference.
Week 3	Recursive function
Week 4	Pointers
Week 5	Array of One Dimension: Declaration of Arrays.
Week 6	Initializing Array Elements
Week 7	Accessing Array Elements.
Week 8	Read / Write / Process Array Elements.
Week 9	Array of Two Dimension: Declaration of 2D-Arrays.
Week 10	Read / Write / Process
Week 11	Array Elements.
Week 12	String manipulation



Week 13	Member Function of String stdlib Library.
Week 14	Structures
Week 15	Array of Structures.
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Review of C++ basics: data types, variables, operators, and control structures
Week 2	Introduction to object-oriented programming (OOP) concepts: classes and objects
Week 3	Implementation of simple classes and objects in C++
Week 4	Inheritance and polymorphism: extending classes and overriding methods
Week 5	Introduction to dynamic memory allocation: new and delete operators
Week 6	Implementation of inheritance and polymorphism in C++
Week 7	File handling: reading from and writing to files

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		
Recommended Texts	K. Venugopal and Raj Buyya, <i>Mastering C++</i> , McGraw Hill Education, 1997.	
Websites	https://www.learncpp.com/ https://www.w3schools.com/CPP/default.asp	



Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(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

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Discrete Mathematics		Module Delivery
Module Type	Support		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	NSDC104		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The course aims to provide students with a solid understanding of the fundamental concepts and principles of discrete mathematics. This includes topics such as sets, logic, proof techniques, functions, relations, and combinatorics.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Demonstrate a solid understanding of fundamental concepts in discrete mathematics, including sets, logic, proof techniques, functions, relations, and combinatory. Apply discrete mathematical techniques and methods to solve problems in various contexts, including computer science, algorithms, and cryptography.
Indicative Contents المحتويات الإرشادية	Sets and Logic Proof Techniques Functions and Relations Combinatorics

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Active Learning Concrete Examples and Visualization Step-by-Step Approach Scaffolding Problem-Solving Strategies
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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	47	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	3.1
Unstructured SWL (h/sem)	87	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	6



الحمل الدراسي غير المنتظم للطالب خلال الفصل		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150	

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	LO #1,2, 3 and 5
	Assignments	2	10% (10)	2,12	LO # 3, 4 and 5
	Projects / Lab.				
	Report	1	10% (10)	13	LO # 5,8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to discrete mathematics
Week 2	Set theory: Set Operations
Week 3	Sequences and Summations
Week 4	Cardinality of Sets and Matrices
Week 5	Logic: Propositional Logic and its applications
Week 6	Mathematical Induction and Recursion
Week 7	Functions: Type of function (one-to-one & invertible function)
Week 8	Geometrical characterization of functions
Week 9	Relation: Computer representation of relations and Digraph
Week 10	Manipulation of relations, Properties of relations Composition of relations
Week 11	Graph theory: Graphs and Graph Models
Week 12	Graph Terminology and Special Types of Graphs
Week 13	Representing Graphs and Graph Isomorphism Connectivity



Week 14	Tree: Introduction to Trees, Applications of Trees
Week 15	Tree Traversal, Spanning Trees
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		
Recommended Texts		
Websites		



Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Logic II		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	NSCE111		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	First Class	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<p>The module aims to develop students' skills in designing and implementing combinational logic circuits. Students learn how to analyze and design circuits using Boolean expressions, Karnaugh maps, and logic gates.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Apply knowledge of combinational logic to design and implement digital circuits using Boolean expressions, Karnaugh maps, and logic gates. Develop the ability to simplify logic expressions and optimize circuit designs</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Introduction to Digital Logic Combinational Logic Design Arithmetic circuits Sequential Logic Design Circuit Testing and Verification</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<p>Strategies</p>	<p>Conceptual Understanding Problem-Solving Approach Hands-on Laboratory Experience Design Projects Simulation and Modeling Problem-Based Learning</p>
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Student Workload (SWL)

الحمل الدراسي للطالب



Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

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

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Combinational Logic: Adder, Subtractor
Week 2	Comparators, Decoders and Encoders
Week 3	Multiplexers (Data Selectors). and DE multiplexers
Week 4	Sequential Logic
Week 5	Latches
Week 6	Flip-Flops: Operating Characteristics
Week 7	Flip-Flop: S-R and J-K Flip-Flops
Week 8	Flip-Flop: Trigger and Delay Flip-Flops
Week 9	Applied Logic
Week 10	Types of Shift Register Data IOS



Week 11	Bidirectional Shift Registers
Week 12	Shift Register Counters
Week 13	Shift Register Applications
Week 14	Ripple Counters
Week 15	Memory and Programmable logic
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Review of propositional logic: syntax, semantics, and truth tables
Week 2	Implementation of propositional logic in a programming language
Week 3	Practice with propositional logic proofs and truth table evaluations
Week 4	Introduction to predicate logic: quantifiers, predicates, and interpretations
Week 5	Practice with predicate logic proofs and interpretation
Week 6	Advanced topics in logic: formal proofs, deduction rules, and logical equivalences
Week 7	Proof strategies and techniques for solving logic problems

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Digital fundamentals, Thomas L. Floyd, 11 th edition Digital Design, Morris Mano, 4 th edition An Introduction to Logic Technology and Fundamentals of logic design	



Recommended Texts		
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
<p>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.</p>				



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Rights and democracy		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOA135		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	First Class	Semester of Delivery	
Administering Department	NSD	College	CSIT
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> 1. Understand the concepts of rights and democracy: The aim of this module is to provide students with a solid understanding of the principles, theories, and values underpinning rights and democracy, including their historical development and contemporary significance. 2. Examine the relationship between rights and democracy: This module aims to explore the interplay between rights and democracy, analyzing how democratic systems uphold and protect individual and collective rights, and how rights contribute to the functioning of democratic societies. 3. Critically assess the challenges to rights and democracy: The aim is to develop students' critical thinking skills in evaluating the challenges and threats faced by rights and democracy, such as authoritarianism, populism, inequality, discrimination, and violations of human rights. 4. Analyze the role of institutions and mechanisms in safeguarding rights and democracy: This module aims to examine the role of various institutions, such as legislative bodies, courts, civil society organizations, and international bodies, in protecting and promoting rights and democracy. 5. Explore the intersectionality of rights and democracy: The aim is to foster an understanding of the intersectionality between different rights and how they intersect with democratic processes, including social, economic, cultural, and political rights.
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Demonstrate a comprehensive understanding of the concepts, theories, and principles of rights and democracy. 2. Analyze and evaluate the relationship between rights and democracy, and understand how they mutually reinforce each other. 3. Critically assess the challenges and threats to rights and democracy in contemporary society. 4. Examine the role of institutions and mechanisms in safeguarding and promoting rights and democracy. 5. Recognize the intersectionality of rights and understand how different rights intersect with democratic processes. 6. Analyze the role of media and information in the context of rights and democracy, including the opportunities and challenges presented by digital



	technologies.
Indicative Contents المحتويات الإرشادية	<ol style="list-style-type: none"> 1. Introduction to Rights and Democracy: <ul style="list-style-type: none"> • Overview of the concepts of rights and democracy • Historical development and evolution of rights and democracy 2. Theoretical Foundations: <ul style="list-style-type: none"> • Theories of democracy and its various forms • Theories of human rights and their philosophical underpinnings 3. International Human Rights Framework: <ul style="list-style-type: none"> • Universal Declaration of Human Rights and international human rights treaties • Role of international organizations and institutions in promoting and protecting human rights 4. Democratic Institutions and Processes: <ul style="list-style-type: none"> • Separation of powers and the rule of law • Electoral systems and democratic governance • Civil society and its role in democratic processes 5. Rights and Democracy in Practice: <ul style="list-style-type: none"> • Rights-based approaches to development • Freedom of expression, assembly, and association • Equality and non-discrimination

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Lectures Case Studies Group Discussions

Student Workload (SWL) الحمل الدراسي للطالب



Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	84	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	LO #1,2, 3 and 5
	Assignments	2	10% (10)	2,12	LO # 3, 4 and 5
	Projects / Lab.				
	Report	1	10% (10)	13	LO # 5,8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	60% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Definition of rights
Week 2	types of human rights
Week 3	Fundamental and non-fundamental rights
Week 4	Civil rights
Week 5	political rights
Week 6	Economic, social and cultural rights
Week 7	The concept of democracy
Week 8	Advantages of democracy
Week 9	Types of democracy
Week 10	direct democracy
Week 11	Representative democracy



Week 12	semi-direct democracy
Week 13	indirect democracy
Week 14	Freedom, human dignity
Week 15	Equality and justice, political participation
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		
Recommended Texts		
Websites		



Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
<p>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.</p>				