Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide for Department of Cybersecurity and Cloud Computing Technique Engineering

2024

University Name: ..... .

Faculty/Institute: **Al Mamoon University College** .

Scientific Department: **Cybersecurity and Cloud Computing Techniques Engineering**

Academic or Professional Program Name: **Bachelor of Engineering**

Final Certificate Name: **Bachelor of Cybersecurity and Cloud Computing Techniques Engineering** **Academic System**: .....

Description Preparation Date: **14–4–2024**

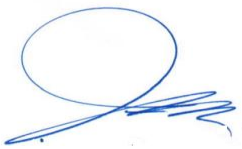
File Completion Date: **14–4–2024**

Signature: 

Head of Department Name:

Dr. Tayf Sami

Date: 14/4/2024

Signature: 

Scientific Associate Name:

Dr. Ali Ghassan

Date: 14/4/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:**D. Muhannad Emad Abdel Sattar**

Date: 14/4/2024

Signature: 



Approval of the Dean

1. Program Vision

Preparing a student who believes in his religion, belongs to his country, and is armed with faith and knowledge. To enable him to face the challenges of the times. Providing a safe learning environment and equal opportunities for learners; To obtain a distinguished education that enables one to think scientifically and possess the necessary skills and values; To be active citizens and contributors to the development of society

2. Program Mission

The college offers distinguished study programs and a system of scientific research to achieve the aspirations of the beneficiaries and contributes as a scientific expertise house in serving the community socially, technologically and industrially through the number of highly qualified graduates to support national development and ensure optimal employment for public partnership.

3. Program Objectives

1. Building a scientific and administrative organizational structure qualified to activate the knowledge system
2. Optimum use of available resources to ensure achieving a balance between the academic, social and economic objectives of the college.
3. Providing scientific advice in the college's areas of specialization, cooperating in the field of community research and studies, and holding conferences, seminars, and panel discussions.
4. In addition to the distinguished pattern above, there is another pattern that aims to graduate theoretically and scientifically qualified scientific cadres through

specialized scientific departments to contribute to meeting the needs of development plans.

5. Building bridges of communication and cooperation between the college and between institutions, universities and scientific research centers regionally and internationally.

4. Program Accreditation

The Ministry of Higher Education provides accreditation in scientific subjects.

5. Other external influences

The sponsor of the program is the Ministry of Higher Education and Scientific Research.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements	7	30	100%	
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical

2024/First	**BCYSCE100-S1**	Mathematics	**3**	
2024/First	**BCYSCE105-S1**	Linux administration	**3**	**3**
2024/First	**BCYSCE102-S1**	Programming basics	**2**	**3**
2024/First	**BCYSCE104-S1**	Basics of electrical engineering	**2**	**3**
2024/First	**NTU 101**	English	**2**	
2024/First	**BCYSCE103-S1**	Introduction to sociology	**2**	
2024/First	**NTU100**	Human rights and democracy	**1**	

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	The student must have full knowledge of the details of cybersecurity
Skills	
Learning Outcomes 2	The student must have the ability to prevent hacking of websites
Learning Outcomes 3	The student must have the ability to build strong, intelligent systems
Ethics	
Learning Outcomes 4	The student must have the ability to understand the ethical responsibility incurred when dealing with websites
Learning Outcomes 5	The student must have the ability to practice some tasks to set priorities. The tasks he will handle in the field

9. Teaching and Learning Strategies

1 Providing learners with planned educational experiences.

2 Developing learners' ability to think scientifically through problem-solving methods.

3 Developing the learner's ability to work cooperatively or in groups.

4 Developing learners' ability to innovate or create.

5 Confronting individual differences among learners.

6 Confronting the problems resulting from the large increase in the number of learners.

7 Providing learners with desired values, customs and trends for the benefit of the individual and society.

10. Evaluation methods

Conducting oral and written examinations and seminars

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Ass. Prof Dr. Muhammed Noori	Electronic Comm Engin	Communication			Staff	
Assi. Prof Dr. Taif Sami	Computer	Network and DB			Staff	
Assis. Prof Dr. Saad abd Alaziz	Computer	Security			Staff	
Assist Prof Dr. Aghed Alkatan	Computer	AI			Staff	
Assist Prof Amad Maty	Computer	Software Eng.			Staff	
Lectu. Dr Hassan	Electronic	Material			Staff	

Waryush	Eng,	Electron				
Ass. Lec Shymaa Deb	Computer	Software			Staff	
Assi Lect. Ez Alden Jabar	Computer	Network			Staff	
Lec. Dr. Darin Mahala	Comp. Eng,	AI				Lecture
Ass. Lec Zinab Majeed	Computer	Network				Lecture
Assi. Lect Dr Adheed Ezet	Law	Special Law				Lecture

Professional Development

Mentoring new faculty members

Directing the teaching staff to the necessity of dealing ethically and paternally with students, trying to take into account individual differences in giving study materials to students, and encouraging students to adhere and adhere to the decisions and regulations of the Ministry of Higher Education and Scientific Research.

Professional development of faculty members

Introducing and urging faculty members to enter the department's courses, especially those related to courses that develop practical skills in the field of cybersecurity, as well as any other courses related to developing teaching capabilities in the areas of human development.

12. Acceptance Criterion

The approved system for college admission is central admission by the Ministry of Higher Education and Scientific Research.

13. The most important sources of information about the program

The Ministry of Higher Education and Scientific Research is the most important body that supports and directs the college through many methods, such as distributing guidelines, conferences, and seminars.

14. Program Development Plan
1. Introducing students to field courses in the protection systems used in banks and official institutions. 2. Providing an advanced computer laboratory for students to work on breakthroughs and how to address them. 3. Testing the students in a practical way by placing them in sites where hacking occurs in order to demonstrate the way of dealing with the real reality.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2004/الاولى	BCYSCE105-S1	Linux administration	Basic	x	x					x	x	x	x		
2004/الاولى	BCYSCE102-S1	Programming Basics	Basic	x	x			x	x			x	x		

- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

Course Description

Mathematic

2024

Course Description Form

1. Course Name: Mathematics

2. Course Code: BCYSCE100

3. Semester / Year: SEMESTER

4. Description Preparation Date: 15/4/2024

5. Available Attendance Forms: weekly

6. Number of Credit Hours (Total) / Number of Units (Total)

45 hours / 3 units

7. Course administrator's name (mention all, if more than one name)

Name: Assist . prof . imad matti bako
Email: imad.m.bko@almamonuc.edu.iq

8. Course Objectives

Course Objectives	• **Understanding mathematics**….. • **Learning to solve mathemat problems** ….. • …..

9. Teaching and Learning Strategies

Strategy	1.Brainstorming strategies 2. Modeling learning strategy

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	understanding	Preface to mathematics	Theoretica	Questions and exam

2	3	understanding	**Math. functions**	Theoretica	Questions and exam
3	3	understanding	**Math. limits**	Theoretica	Questions and exam
4		understanding	**graphs**	Theoretica	Questions and exam
5		understanding	**2x2 matrix**	Theoretica	Questions and exam
6		understanding	**3x3 matrix**	Theoretica	Questions and exam
7		understanding	**Determinants**	Theoretica	Questions and exam
8		understanding	**2x2 inverse matrix**	Theoretica	Questions and exam
9		understanding	**3x3 inverse matrix**	Theoretica	Questions and exam
10		understanding	**Crammer rule**	Theoretica	Questions and exam
11		understanding	Solving 2 linear equations By crammer rule	Theoretica	Questions and exam
12		understanding	Solving 3 linear equations By crammer rule	Theoretica	Questions and exam
13		understanding	**Differentiation**	Theoretica	Questions and exam

14		understanding	**integration**	Theoretica	Questions And questions Exam and questions
15		understanding	Review	Theoretica	Questions And questions Exam and questions

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	calculus
Main references (sources)	calculus
Recommended books and references (scientific journals, reports…)	Mathematics books
Electronic References, Websites	Google websites

Course Description

Linux Administrator

2024

Course Description Form

1. Course Name: Linux Administrator	
2. Course Code: **BCYSCE 403-S2**	
3. Semester / Year: 2023-2024	
4. Description Preparation Date: 16-4-2024	
5. Available Attendance Forms: Lectures and Laboratories	
6. Number of Credit Hours (Total) / Number of Units (Total) 175	
7. Course administrator's name (mention all, if more than one name)	
Name: Ezzulddin Jabbar obaid Email: Ezzulddin.j.obaid@almamonuc.edu.iq	
8. Course Objectives	
Course Objectives	1. Introducing the fundamentals and principles of Linux administration using Linux operating system. 2. starts from scratch to network monitoring applications. 3. Improving the skills of the students through several Linux implementations and scripts writing. 4. The students should be able to understand the uses and purpose of using scripts and retrieve important network settings and packets sending and receiving information. 5. • Help the students perform the needed cy security works as well as qualifying him to use different kinds of shell scripting style a instructions to build & execute the projects of cy security engineering..
9. Teaching and Learning Strategies	

Strategy	The main strategy that will be adopted in delivering this module is to encour students' participation in the exercises, while at the same time refining and expand their critical thinking skills. This will be achieved through classes, interactive tutor and by considering types of simple experiments involving some sampling activities t are interesting to the students.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7		1 Linux Fundamentals: Linux Distros & History, Debian vs RedHat, Basic Commands. Linux Fundamentals: Debian vs RedHat. Linux Fundamentals: Basic Commands. Users & Permissions: File Systen File StructureFinal Exam Users & Permissions: Users & Groups, Permissions Networking & Package Groups: Package Management. Networking & Package Groups: Configuring Network Settings. 8. Linux Services: Apache, Creating a Basic Website 9. Linux Services: SSH & Telnet 10. Linux Services: FTP, SMB 11 Bash Scripting, Data types and variables, Execute shell command 12. Shell Scripting, Loops		Lectures And Labs	

		function 13. Shell conditions, and arithmetic comparisons 14. I/O Manipulation, I/O Redirections			

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, dailyoral, monthly, or written exams, reports .... etc 10& Quiz, 5% Assignment, 10% Project labs, 5% Report, 10% Midterm exam, 50% final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	**1.** Unix And Linux®Syst Administration Handbook. Fou Edition, Evi Nemeth Ga Snyder,Trent R. Hein and E Whaley
Recommended books and references (scientific journals, reports…)	Modern Lin Administration
Electronic References, Websites	

Course Description Form

13. Course Name:
Fundamentals of Programming
14. Course Code:
BCYSCE102-S1
15. Semester / Year:
(First, First)
16. Description Preparation Date:
2024/4/14
17.Available Attendance Forms:
Weekly Attendance
18.Number of Credit Hours (Total) / Number of Units (Total)
(175 hours / 7 units)
19. Course administrator's name (mention all, if more than one name)
Name: Assistant Lecturer Shaymaa AbdUlkareem Dheeb Email: Shaymaa.a.dheeb@almamonuc.edu.iq
20. Course Objectives

Course Objectives	**General Objective //** • Introducing the fundamentals and principles programming in C++ language. • Teaching the concept of Procedure Orien Programming. • . Starts from scratch to advance programing improving the skills of the students through sev program implementation and code writing. **Behavioral goals //** • The student should be able to define programming purposes & the required code lines to perform the needed works. • The student should be able to use different types of programming style and program functions in building and implementing cybersecurity engineering projects

21. Teaching and Learning Strategies	
Learning Outcomes	• 1. Understanding the fundamentals of programming in C++ language. • 2. Mastering C++ programming tools and techniques, including common integrated development environment (IDE) such as visual studio. • 3. Becoming familiar with the C++ concepts such as Variables, assignments,

	Simple input, Main program and functions. • 4. Being competent in common If-statement,Loops, Boolean Expressions & Logical operators. • 5. Being able to perform Function call, Parameters, return values. • 6. Being able to write C++ codes, Basics of program design & Programming style.
Strategy	• Brainstorming strategy • Learning Strategy Modeling • Business Strategy Group or collaborative learning

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Understanding and comprehension	Introduction to C++ (Structure of a program), Flow Chart.	Discussion Strategy	Oral and written exam
2	3	Understanding and comprehension	Variables, assignments, Simple input, Main program.	Discussion Strategy	Oral and written exam
3	3	Understanding and comprehension	If-statement If-else, Boolean Expressio & Logical operators.	Learning Strategy Modeling	Oral and written exam
4	3	Understanding and comprehension	Loops Nested Loops, and program Des	Business Strategy Group or collaborative learning	Oral and written exam
5	3	Understanding and comprehension	Output formatting.	Brainstorming strategy	Oral and written exam
6	3	Understanding and comprehension	Functions, Parameters, return values.	Brainstorming strategy	Oral and written exam
7	3	Understanding and comprehension	Debugger.	Discussion Strategy	Oral and written exam
8	3	Understanding and comprehension	Lists Methods, Nesting, Slicing, and Comprehension.	Learning Strategy Modeling	Oral and written exam
9	3	Understanding and comprehension	Strings and String Formatting.	Brainstorming strategy	Oral and written exam

10	3	Understanding and comprehension	Dictionary and Handle Exceptions.	Learning Strategy Modeling	Oral and written exam
11	3	Understanding and comprehension	Values and references.	Discussion Strategy	Oral and written exam
12	3	Understanding and comprehension	Basics of program design & Programming style.	Learning Strategy Modeling	Oral and written exam
13	3	Understanding and comprehension	Pointers (Reference operator, dereference operator, Declaring variables of pointer types, Pointers and arrays, Pointers to pointers, void pointers, and Pointers to functions).	Business Strategy Group or collaborative learning	Oral and written exam
14	3	Understanding and comprehension	Dynamic Memory (Operators new, check if the allocation memory is successful and Operators delete).	Learning Strategy Modeling	Oral and written exam
15	3	Understanding and comprehension	review/seminar	Discussion Strategy	Oral and written exam
16	3	Understanding and comprehension	Final Exam.	Discussion Strategy	Oral and written exam

23. Course Evaluation

		Time/ Number	Weight (Marks)	Week Due
	Quizzes	4	10%(10)	3,6,9,12

Formative assessment	assignments	8	5%(5)	Every other week
	Projects- lab	14	10%(10)	Continuous
	Report	2	5%(5)	7,14
	Seminar	1	10%(10)	15
Summative assessment	Midterm Exam	2hr	10%(10)	7
	Final Exam	3hr	50%(50)	16
Total assessment			100%(100 Marks)	

24. Learning and Teaching Resources

Required textbooks (curricular books any)	1. Choudhary, H. (2013). C++ Programming-Final Golden Edition. Beginners To Experts Approach Guide-With Easy Learning & Problem Analysis to Program Design & Development.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	2. Farrell, J. (2008). Object-oriented programming using C++. Cengage Learning. 3. Object-Oriented Programming in C++, Fourth Edition.
Electronic References, Websites	https://www.geeksforgeeks.org/cpp https://www.w3schools.com/cpp

Course Description

Fundamentals of Programming

2024

Course Description Form

25. Course Name:	
Fundamentals of Programming	
26. Course Code:	
BCYSCE102-S1	
27. Semester / Year:	
(First, First)	
28. Description Preparation Date:	
2024/4/14	
29.Available Attendance Forms:	
Weekly Attendance	
30.Number of Credit Hours (Total) / Number of Units (Total)	
(175 hours / 7 units)	
31. Course administrator's name (mention all, if more than one name)	
Name: Assistant Lecturer Shaymaa AbdUlkareem Dheeb Email: Shaymaa.a.dheeb@almamonuc.edu.iq	
32. Course Objectives	
Course Objectives	**General Objective //** • Introducing the fundamentals and principles programming in C++ language. • Teaching the concept of Procedure Orien Programming. • . Starts from scratch to advance programing improving the skills of the students through sev program implementation and code writing. **Behavioral goals //** • The student should be able to define programming purposes & the required code lines to perform the needed works. • The student should be able to use different types of programming style and program functions in building and implementing cybersecurity engineering projects
33. Teaching and Learning Strategies	
Learning Outcomes	• 1. Understanding the fundamentals of programming in C++ language. • 2. Mastering C++ programming tools and techniques, including common integrated development environment (IDE) such as visual studio. • 3. Becoming familiar with the C++ concepts such as Variables, assignments,

	Simple input, Main program and functions. • 4. Being competent in common If-statement,Loops, Boolean Expressions & Logical operators. • 5. Being able to perform Function call, Parameters, return values. • 6. Being able to write C++ codes, Basics of program design & Programming style.
Strategy	• Brainstorming strategy • Learning Strategy Modeling • Business Strategy Group or collaborative learning

34. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Understanding and comprehension	Introduction to C++ (Structure of a program), Flow Chart.	Discussion Strategy	Oral and written exam
2	3	Understanding and comprehension	Variables, assignments, Simple input, Main program.	Discussion Strategy	Oral and written exam
3	3	Understanding and comprehension	If-statement If-else, Boolean Expressio & Logical operators.	Learning Strategy Modeling	Oral and written exam
4	3	Understanding and comprehension	Loops Nested Loops, and program Des	Business Strategy Group or collaborative learning	Oral and written exam
5	3	Understanding and comprehension	Output formatting.	Brainstorming strategy	Oral and written exam
6	3	Understanding and comprehension	Functions, Parameters, return values.	Brainstorming strategy	Oral and written exam
7	3	Understanding and comprehension	Debugger.	Discussion Strategy	Oral and written exam
8	3	Understanding and comprehension	Lists Methods, Nesting, Slicing, and Comprehension.	Learning Strategy Modeling	Oral and written exam
9	3	Understanding and comprehension	Strings and String Formatting.	Brainstorming strategy	Oral and written exam

10	3	Understanding and comprehension	Dictionary and Handle Exceptions.	Learning Strategy Modeling	Oral and written exam
11	3	Understanding and comprehension	Values and references.	Discussion Strategy	Oral and written exam
12	3	Understanding and comprehension	Basics of program design & Programming style.	Learning Strategy Modeling	Oral and written exam
13	3	Understanding and comprehension	Pointers (Reference operator, dereference operator, Declaring variables of pointer types, Pointers and arrays, Pointers to pointers, void pointers, and Pointers to functions).	Business Strategy Group or collaborative learning	Oral and written exam
14	3	Understanding and comprehension	Dynamic Memory (Operators new, check if the allocation memory is successful and Operators delete).	Learning Strategy Modeling	Oral and written exam
15	3	Understanding and comprehension	review/seminar	Discussion Strategy	Oral and written exam
16	3	Understanding and comprehension	Final Exam.	Discussion Strategy	Oral and written exam

35. Course Evaluation

		Time/ Number	Weight (Marks)	Week Due
	Quizzes	4	10%(10)	3,6,9,12

Formative assessment	assignments	8	5%(5)	Every other week
	Projects- lab	14	10%(10)	Continuous
	Report	2	5%(5)	7,14
	Seminar	1	10%(10)	15
Summative assessment	Midterm Exam	2hr	10%(10)	7
	Final Exam	3hr	50%(50)	16
Total assessment			100%(100 Marks)	

36. Learning and Teaching Resources

Required textbooks (curricular books any)	1. Choudhary, H. (2013). C++ Programming-Final Golden Edition. Beginners To Experts Approach Guide-With Easy Learning & Problem Analysis to Program Design & Development.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	2. Farrell, J. (2008). Object-oriented programming using C++. Cengage Learning. 3. Object-Oriented Programming in C++, Fourth Edition.
Electronic References, Websites	https://www.geeksforgeeks.org/cpp https://www.w3schools.com/cpp

Course Description

Fundamentals of Electrical Engineering

2024

Course Description Form

1. Course Name:	
Fundamentals of Electrical Engineering	
2. Course Code:	
BCYSCE104−S1	
3. Semester / Year:	
The First – The First	
4. Description Preparation Date:	
4/22/2024	
5. Available Attendance Forms:	
Weekly	
6. Number of Credit Hours (Total) / Number of Units (Total):	
125 Chr / 5 #unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Aghiad Khedr Alkatan Email: Aghiad.k.alkatan@almamonuc.edu.iq	
8. Course Objectives	
Course Objectives	▪ Introducing students to the concept of electric circuit analysis. ▪ To learn the basics of electrical elements (Symbols and Abbreviations, Units, Electric Circuit and Direct Current). ▪ Study units, Laws, and methods of analysis. ▪ Study the theories of circuit. ▪ Preparing students to study AC circuits analysis

	▪ Study Ohm's law ▪ To learn Kirchhoff's Laws ▪ Network Analysis Methods ▪ Study The Alternating Current Network ▪ Phase Diagram

9. Teaching and Learning Strategies

Strategy	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	•Recognize how electricity works in electrical circuits. •List the various terms associated with electrical circuits. •Summarize what is meant by a basic electric circuit. •Define Ohm's law.	Symbols And Abbreviations, Units, Electric Circuit & It's Element	•Discussion strategy •Modeling learning strategy •Group work cooperative learning strategy	Quizzes, Assignments Oral and Written test
2	2		The Direct Current Network Ohms low.		
3	2		Series Circuits (Resistance in Series) Voltage Divider Rule		
4	2				
5	2		Parallel Circuits (Resistances in Parallel) Current Divider Rule.		
6	2		Open and Short Circuits, Source Transformation		
7	2		Series-Parallel Circuits Transformation		
8	2	•Explain the two Kirchoff's laws used in circuit analysis.	Kirchhoff's Laws: - Kirchhoff's current law (KCL) and. Their Use In Network Analysis		
9	2		Kirchhoff's voltage law (KVL).and Their Use In Network Analysis		
10	2	•Use different Network Analysis Methods to	Conversion Delta To Star Connection And Conversion Star To Delta		

		analyze and solve the electrical circuits	Connection		
11	2		Superposition Method		
12	2		Thevenin's Theorem		
13	2		Norton's Theorem		
14	2		Maximum Power Transfer Theorem		
15	2		Reciprocity Theorem		

11. Course Evaluation

		Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative Assessment	Quizzes	2	10% (10)	5-10	1-4 , 5-10
	Assignments	2	10% (10)	2-12	1-11
	Projects / Lab	1	10% (10)	Continuous	
	Report	1	10% (10)	13	6-11
Summative Assessment	Mid-Term Exam	2 hr	10% (10)	7	1-9
	Final Exam	3 hr	50% (50)	16	ALL
Total Assessment			**100% (100)**		

12. Learning and Teaching Resources

Required textbooks (curricu books, if any)	▪ Fundamentals of Electric Circuits, C.K. Alexander and M.N.O Sadiku, McGraw-Hill Education
Main references (sources)	▪ DC Electrical Circuit Analysis: A Practical Approach ▪ Copyright Year: 2020, dissidents
Recommended books and references (scientific journals, reports…)	▪ Introductory Circuit analysis ▪ Robert Boylasted ▪ Twelfth Edition
Electronic References, Websites	▪ Internet & YouTube

Course Description
English Language

2024

Course Description Form

1. Course Name:
English Language
2. Course Code:
NTU 101
3. Semester / Year
(First Year)
4. Description Preparation Date:
8 /4 /2024
5. Available Attendance Forms:
Weekly attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
(50 Hr. / 2Unit)
7. Course administrator's name (mention all, if more than one name)
Name: Darin Shafik Salim Email: darin.s.salim@almamonuc.edu.iq
8. Course Objectives

Course Objectives	**As illustrated below .**

General goal

The objective of teaching English has two main aspects:

- Language aspect: Words, sentences, pronunciation, spelling and grammar.
- Literature aspect: Words, sentences, expressing ideas, feelings

and experiences.....

Special goals

1. Enhancing reading skills: The ability to read and comprehend various texts and written materials at different levels of complexity.
2. Developing writing skills: The ability to express oneself in writing clearly, coherently, and proficiently.
3. Improving speaking skills: The ability to articulate ideas and opinions clearly and accurately in pronunciation and the proper use of grammatical rules.
4. Expanding vocabulary and improving the ability to use vocabulary accurately and appropriately in the correct context.
5. Developing an understanding of grammar rules: The ability to understand and use grammatical, syntactical, and structural rules correctly in communication.
6. Enhancing cultural skills: Understanding English culture, listening to opinions, and interacting with other cultures in a tolerant and understanding manner.

1. Teaching and Learning Strategies

Strategy	Brainstorming strategy Modeling learning strategy Group work or cooperative learning strategy Discussion strategy Project strategy A strategy for problem solving or problem-based learning Story strategy. Combining different strategies

2. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-	3	Understanding and assimilation	Part of speech	Brainstorming strategy	Oral and written Examination
2-	3	Understanding and assimilation	Questions with question words	Teamwork strategy.	Oral and written Examination
3-	3	Understanding and assimilation	Pronouns	Project strategy	Oral and written Examination

4-	**3**	Understanding and assimilation	Possessive adjectives	Discussion strategy	Oral and written Examination
5-	**3**	Understanding and assimilation	A, an & Plural nouns + Vocabulary	Story strategy	Oral and written Examination
6-	**3**	Understanding and assimilation	Auxiliary verbs + reading skill	Problem solving strategy	Oral and written Examination
7-	**3**	Understanding and assimilation	Tenses : Simple present	Modeling learning strategy	Oral and written Examination
8-	**3**	Understanding and assimilation	Mid-term exam	Teamwork strategy.	Oral and written Examination
9-	**3**	Understanding and assimilation	Tenses: Past Simple 1+Past Simple 2	Combining different strategies	Oral and written Examination
10-	**3**	Understanding and assimilation	writing skill+ reading skill	Combining different strategies	Oral and written Examination
11-	**3**	Understanding and assimilation	There is/ There are	Combining different strategies	Oral and written Examination
12-	**3**	Understanding and assimilation	Some & any + that & this	Teamwork strategy.	Oral and written Examination
13-	**3**	Understanding and assimilation	Past Simple - irregular verbs	Project strategy	Oral and written Examination
14-	**3**	Understanding and assimilation	Modal verbs	Combining different strategies	Oral and written Examination
15-	**3**	Understanding and assimilation	Adverbs + like and would like	Combining different strategies	Oral and written Examination
16-	**3**	Understanding and	Final Exam	Combining different strategies	Oral and written Examination

		assimilation			

3. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc.

4. Learning and Teaching Resources

Required textbooks (curricular books, if any	New headway plus/ John and Liz Soars – Beginner
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Fundamentals of English grammar, Betty Schrampfer Azar, Edition: 3rd full edition with answer keys
Electronic References, Websites	https://learnenglish.britishcouncil.org/general-english/word-on-the-street/oxford/oxford-university Oxford guide to English grammer by John Eastwood

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Course Description

Sociology

Course Description Form

1. Course Name: Sociology

Course Code: **BCYSCE103-S1**

2. Semester / Year: Semester

Description Preparation Date: **01/06/2023**

3. Available Attendance Forms: Lecture

4. Number of Credit Hours (Total) / Number of Units (Total) 100h/ 4-unit

5. Course administrator's name (mention all, if more than one name)

Name: Zainab majeed kadim
Email: Zainab.m.kadim@almamoonuc.edu.iq

6. Course Objectives

Course Objectives	Introduce students to the field of sociology and its central theoretical perspectives from Cybersecurity perspective. Provide students with basic ideas and knowledge in the science of sociology. Help students understand the similarities and differences between different sociological paradigms. Introduce student to terminology related to cybersecurity such as Cybercrime and deviance, Globalization Introduce students to new ways of thinking about race, ethnicity, and culture from the perspectives of sociology.

7. Teaching and Learning Strategies

Strategy Lecture	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive learning and by considering types of simple case study discussions involving some sampling activities that are interesting to the students.

8. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	(3h)	Introduction to Sociology and Cybersecurity	Scociology	Lecture	Theoretical
2	(2h)	Cybersecurity Fundamentals	Scociology	Lecture	Theoretical
3		Sociology Fundamentals	Scociology	Lecture	Theoretical
4		Cybersecurand Society.	Scociology	Lecture	Theoretical
5	(2hrs)	Cybercrime and Deviance	Scociology	Lecture	Theoretical
6	(2hrs)	Cybersecurity and Social Change	Scociology	Le	Theo

				ctur e	retical
7	(2hrs)	Cybersecurity and Globalization.	Scociology	Lectur e	Theoretical
8	(1hrs)	Cybersecurity and Ethics	Scociology	Lectur e	Theoretical
9	(2hrs)	Introduction to Cyberbullying	Scociology	Lectur e	Theoretical
10	(1hrs)	Effects of Cyberbullying (1hrs)	Scociology	Lectur e	Theoretical
11	(3hrs)	Human-factors, Cyber security, and sociology.	Scociology	Lectur e	Theoretical
12	(3hrs)	Human-factors, Cyber security, and sociology.	Scociology	Lectur e	Theoretical

13	(3hrs)	Risks and cybersecurity incidents and how society should deal with them	Scociology	Lecture	Theoretical

9. Course Evaluation:

	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
Projects / Lab.	1	10% (10)	Continuous	All
Report	1	10% (10)	13	LO #5, #8 and #10
Midterm Exam	2hr	10% (10)	7	LO #1 - #7
Final Exam	3hr	50% (50)	16	All
		100% (100 Marks)		

10. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Introduction to Sociology" by George Ritzer.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	1. "Cybersecurity and Cyberwar: What Everyone Needs to Know" by P.W. Singer and Allan Friedman 3. "The Cybersecurity Canon: Must-Read Books" by Palo Alto Networks
Electronic References, Websites	