	Ministry of Higher Education and Scientific Research - Iraq University of Technology Department of Computer Science	

MODULE DESCRIPTOR
وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	PYTHON LANGUAGE	**Module Delivery**	
Module Type	CORE	**Theory** **Lecture** **Lab** **Tutorial** **Practical** **Seminar**	
Module Code	PYLA214		
ECTS Credits	5		
SWL (hr/sem)	125		

Module Level	2	**Semester of Delivery**	3
Administering Department	Type Dept. Code	**College**	Type College Code
NModule Leader	Noor Hayder	**e-mail**	Noor.H.AbdulAmeer@uotechnology.edu.iq
Module Leader's Acad. Title	Lec	**Module Leader's Qualification**	M.Sc
Module Tutor	None	**e-mail**	None
Peer Reviewer Name		**e-mail**	
Review Committee Approval		**Version Number**	

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	**Semester**	None
Co-requisites module	None	**Semester**	None

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	• Getting to know the concept of Python Language • Knowing the functions of Python Language • Getting to know the Python Language applications
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1-Understand the basic syntax and semantics of Python programming language. 2-Implement logical rules and queries using Python. 3-Analyze and solve problems using Python programming. 4-Develop the student thinking skills and the ability to analyze problems using logical programming principles. 5- Develop skills in debugging and testing Python programs. 6-Demonstrate the ability to develop and implement Python programs to solve problems in different domains.
Indicative Contents المحتويات الإرشادية	1-BASIC PYTHON SYNTAX 2-VARIABLE TYPES 3-BASIC OPERATORS 4-DECISION MAKING 5-LOOPS 6-NUMBERS 7-STRINGS 8-LISTS 9-DICTIONARY 10-FUNCTIONS 11-MODULES 12-FILES I/O
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1- Learn specialized programming that will be the basis for building simple systems and applications in artificial intelligence 2- Learn more complex programming to begin building complex systems, applications, and projects in artificial intelligence.

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 أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
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 6
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 5 and 6
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 4, 5 and 6
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-6
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	**BASIC PYTHON SYNTAX**
Week 2	**VARIABLE TYPES**
Week 3	**BASIC OPERATORS**
Week 4	**DECISION MAKING**
Week 5	**LOOPS**
Week 6	**NUMBERS**
Week 7	**STRINGS**
Week 8	**LISTS**
Week 9	**DICTIONARY**
Week 10	**DICTIONARY**
Week 11	**FUNCTIONS**

Week 12	**FUNCTIONS**
Week 13	**MODULES**
Week 14	**FILES I/O**
Week 15	**FILES I/O**
Week 16	**Final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	**VARIABLE TYPES**
Week 2	**BASIC OPERATORS**
Week 3	**DECISION MAKING**
Week 4	**LOOPS**
Week 5	**NUMBERS**
Week 6	**STRINGS**
Week 7	**LISTS**
Week 8	**DICTIONARY**
Week 9	**FUNCTIONS**
Week 10	**MODULES**
Week 11	**FILES I/O**
Week 12	**FILES I/O**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	1.Tutorials point simply easy learning, ” Python programming language , ” copyrighted 2014. 2- "Learning Python" by Mark Lutz 6th Edition - 2021	Yes

Recommended Texts	• "Python Crash Course" by Eric Matthes • "Python for Data Analysis" by Wes McKinney	No
Websites	https://www.tutorialspoint.com/python/index.htm	

APPENDIX:

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	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

NB 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.