



Ministry of Higher Education and
Scientific Research – Iraq
Al-Mansour University college
Department of Computer Science
and Information Software



MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	STRUCTURED PROGRAMMING		Module Delivery
Module Type	CORE		-Theory Lecture -Lab -Practical Seminar
Module Code	STPR121		
ECTS Credits	8		
SWL (hr/sem)	200		
Module Level	1	Semester of Delivery	2
Administering Department		College	
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
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	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. Teaching the students the concept of the array , performing many operation on them. 2. Studying the functions and how to call then and passing values to them. 3. Teaching students strings manipulate 4. Teaching student the pointers and the structures in C++
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Understanding the meaning of one dimension array 2. Understanding the meaning of two dimension array 3. Perform operations on arrays. 4. Understanding the concept of function and who to return values from them 5. Learn how to pass parameters to functions 6. Capable of using string and manipulate them in the program 7. Give the student the ability of using pointers and structures in there programs
Indicative Contents المحتويات الإرشادية	1- Explain how to define one dimension and two dimension array 2- Define functions with their various types. Explain how to use strings in the program 3- Let the students see many examples about pointers and structures and there effects on the programs
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	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.

Student Workload (SWL) الحمل الدراسي للطلاب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	108	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	7.2

Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	92	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	5	LO # 1 and 3
	Practical Seminar(Lab).	2	15% (15)	Continuous	LO # 2 , 4 and 5
Summative assessment	Midterm Exam	1 hr	15% (15)	14	LO # 1 to 5
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	- Functions, program in functions - Passing parameters
Week 2	Arrays: one dimensional array
Week 3	Arrays: two dimensional array
Week 4	Array and functions
Week 5	Quizzes
Week 6	Strings
Week 7	Member function of strings
Week 8	Structure : Type of Structure declaration
Week 9	Array of Structures
Week 10	- Structure within structure - Functions and structures
Week 11	- pointers declaration - pointers and functions parameters passing
Week 12	Pointers and arrays
Week 13	Arrays of pointers

	• pointers to pointers
Week 14	Midterm Exam
Week 15	Preparatory Week
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المناهج الاسبوعي للمختبر	
	Material Covered
Week 1	- Functions, program in functions - Passing parameters
Week 2	Arrays: one dimensional array
Week 3	Arrays: two dimensional array
Week 4	Array and functions
Week 5	Quizzes
Week 6	Strings
Week 7	Member function of strings
Week 8	Structure : Type of Structure declaration
Week 9	Array of Structures
Week 10	- Structure within structure - Functions and structures
Week 11	- pointers declaration - pointers and functions parameters passing
Week 12	Pointers and arrays
Week 13	- Arrays of pointers - pointers to pointers

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Mastering C++, Amman-Jordan, AL-Shorok, 2002	Yes
Recommended Texts	1- Oqeili Salih, prof. Department of IT-AL-Balqa Applied University.	No
Websites		

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.				