	Ministry of Higher Education and Scientific Research - Iraq Al-Mustaqbal University College of Science Forensic Science Department	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	التحليل العقدي	**Module Delivery**	
Module Type	SUPLEMENT		☒**Theory** ☐ **Lecture** ☒**Lab** ☒**Tutorial** ☐ **Practical** ☐ **Seminar**
Module Code	UOMU0308036		
ECTS Credits	5		
SWL (hr/sem)	**125**		
Module Level		**Semester of Delivery**	1
Administering Department		**College**	Science
Module Leader	MSc. Reyam Thair Ahmed	**e-mail**	reyam.thair.thair@uomus.edu.iq
Module Leader's Acad. Title		**Module Leader's Qualification**	
Module Tutor		**e-mail**	
Peer Reviewer Name		**e-mail**	
Review Committee Approval		**Version Number**	1

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	Learning the complex integration, the improper integrals, finding the poles of function, use the infinite series to represent the analytic functions and study the conformal mapping.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	This module is concerned with complex functions, that is functions which are both defined for and assume complex values. Their theory follows a quite different development from that of real functions, is remarkable in its directness and elegance, and leads to many useful applications.Topics covered will include: Complex numbers. Domains and simple connectivity. Cauchy-Riemann equations. Integration and Cauchy's theorem. Singularities and residues. Applications.
Indicative Contents المحتويات الإرشادية	It is to help the student discover his abilities and academic potential, help him design a plan that is unique to him, meet his requirements for editing requirements, and help him overcome any difficulties that could determine his successful path.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	the strategies used by a faculty member to develop student learning. It can be defined as a set of general rules and broad lines that concern the means of achieving the desired goals of teaching. It refers to the methods and plans followed by the faculty member to reach learning goals.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	46	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.5
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, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Basic concepts
Week 2	Limit in complex functions
Week 3	Continuity, differential in complex functions
Week 4	Cauchy integral equations
Week 5	Cauchy integral equations in polar form
Week 6	Analytic functions
Week 7	Analytic equations in polar form
Week 8	Log functions and Exponential functions
Week 9	Triangle functions
Week 10	harmonic functions
Week 11	Integral
Week 11	Infinite integral
Week 12	Linear integral
Week 13	Resedu theorem
Week 14	Sequences
Week 15	Series

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Complex variables and applications Ruel v. Churchill	Yes
Recommended Texts		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.

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي